

APPENDIX D

Noise

NOISE ASSESSMENT TECHNICAL REPORT
for the
Otay Ranch Village Two Comprehensive SPA Plan
Amendment
City of Chula Vista, California

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SUMMARY

This report assesses potential noise and vibration impacts associated with the implementation of the Otay Ranch Village Two Comprehensive Sectional Planning Area (SPA) Plan Amendment, herein referred to as the project. The project is, located within the City of Chula Vista, California, near the southeasterly edge of the City's limits. Chula Vista is located in San Diego County, approximately two miles south of the City of San Diego, and approximately two miles north of the US-Mexico International Border.

Baldwin & Sons and affiliated entities currently control 1,873 dwelling units (63%) within Village Two of Otay Ranch. Additionally, B&S controls approximately 8.5 acres of mixed use commercial, 12.5 acres of dedicated commercial, 60.7 acres of industrial uses, as well as various park and community purpose facilities (CPF) within the Village. The Comprehensive SPA project proposes adding 1,562 residential units, an elementary school, parkland, and CPF facilities. The project may also include park and CPF facilities beyond what is required for this project; this excess land may be used to satisfy the requirements generated by other Baldwin & Sons projects in the Otay Ranch.

The noise assessment impact analysis evaluates the potential for significant adverse impacts due to construction and long-term operation of the proposed project. Construction of the proposed project would result in temporary generation of elevated noise levels with the potential to cause nuisance to noise-sensitive land uses in the vicinity of construction activities. Mitigation measures are specified to address this issue.

Construction of the proposed project would not result in construction noise or groundborne vibration that would result in a significant direct or cumulative impact with implementation of the mitigation measures required in the Biological Resource Report prepared for the proposed project. Buildout of the proposed project would result in significant traffic noise increases along Olympic Parkway within the project site. Mitigation measures Noi-1 through Noi-5 would reduce direct and cumulative impacts to a less than significant level. Short-term increases in traffic noise off-site would be less than significant. Long-term traffic noise impacts would be less than significant with implementation of the circulation system improvements.

Operation of the proposed project would have the potential to result in excessive noise levels related to heating, ventilation, and air conditioning (HVAC) equipment, commercial land use, and recreational facilities. Mitigation measures Noi-2 through Noi-4, and Noi-6 through Noi-8 would reduce direct and cumulative impacts to a less than significant level. Future residents of Village Two would have the potential to be exposed to nuisance noise from Brown Field aircraft operations. Mitigation measure Noi-9 would reduce impacts to a less than significant level.

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Future traffic volumes on major roadways transecting the project may result in noise levels that exceed the 65 dB CNEL exterior noise criterion for residences, schools, neighborhood parks, and outdoor uses, which are considered potentially significant impacts. Sound walls have been prescribed to control future traffic noise and achieve residual noise levels that are less than significant. To achieve compliance with the residential indoor criterion, special construction materials or techniques may be required where the residual exterior noise exposure equals or exceeds 65 dB CNEL. When site plans are prepared for residential neighborhoods, a verification noise analysis will be performed to identify the residual ambient noise levels present in residential yard areas, and to prescribe any necessary construction materials or techniques for compliance with the indoor residential noise criterion.

The project would not have a significant contribution toward cumulatively significant noise increases on the surrounding roadway network resulting from Year 2025 or Year 2030 build-out of the General Plan.

The proposed elementary school could be exposed to elevated exterior noise levels from roadway traffic within the project. A site specific acoustical analysis for the elementary school site is required prior to construction permits, to ensure site configuration, construction methods, and noise barriers (as necessary), address and control the potential for elevated noise exposure. The analysis is also required to evaluate playground noise upon immediately adjacent residences, and to prescribe appropriate site design features (i.e., adequate setback distance from property lines, location of intervening school structures between playgrounds and off-site receptors, etc.) to ensure avoidance of nuisance.

Construction of the proposed project would not result in construction noise or groundborne vibration that would result in a significant direct or cumulative impact to sensitive biological resources with implementation of the mitigation measures required in the SPA Plan EIR.

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1.0 INTRODUCTION

1.1 Purpose

This technical noise report evaluates noise effects of the project including potential impacts from current and future ambient noise levels upon proposed land uses as well as noise generation potential from proposed land uses and activities within the Otay Ranch Village Two Comprehensive SPA Plan Amendment (proposed project). Noise generation sources from future implementation of the project include traffic, school-related playground and sports activities, and mechanical equipment and exterior activities from commercial uses.

1.2 Project Location and Description

The proposed project is located within the City of Chula Vista in southwestern San Diego County, approximately 3.5 miles east of downtown Chula Vista and 13 miles southeast of Downtown San Diego (Figure 1). Regional access to the project area is from State Route 125 (SR-125), which runs adjacent to a portion of the proposed project, and Interstate 805, which is approximately 1.75 miles to the west. The proposed project area occupies approximately 2420 acres within Village Two in the Otay Valley Parcel of the Otay Ranch General Development Plan (GDP) (Figure 2). Village Two consists of a total of 346 acres, including approximately 1046 acres not under Baldwin & Sons ownership. Village Two is generally bounded by Olympic Parkway to the north, La Media Road to the east, Village 3 and 4 to the south, and the Otay Landfill to the west

Baldwin & Sons and affiliated entities currently control 1,873 dwelling units (du) (63%) within Village Two of Otay Ranch. Additionally, B&S controls approximately 8.5 acres of mixed use commercial, 12.5 acres of dedicated commercial, 60.7 acres of industrial uses, as well as various park and CPF within the Village. An additional 1,110 dwelling units under different ownership have been approved on the remaining 104 acres in Village Two.

The proposed project would add 1,562 du in a variety of residential types for a total of 4,545 units in Village Two (3,435 du under Baldwin & Sons ownership). The proposed project would decrease the allocated single family dwelling units by 70 and introduce 1,632 multi-family dwelling units. In addition, between 20,000 and 120,000 square feet of commercial uses would be located on the MU-2, MU-3 and C-1 parcels combined. In order to account for the increase in residential uses, the proposed project will also include an additional 9.5 acres for a new elementary school, 12.8 acres of parkland, and 14.3 acres of CPF. The areas that are proposed to change under the proposed project are shown in Figure 3 and the proposed land uses are shown in Figure 4.

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Table 1 shows a comparison of the development of Village Two as proposed under the proposed project and the current SPA Plan, which was analyzed in the SPA Plan EIR, Addendum to the SPA Plan EIR, and the Village Two SPA Plan Amendment MND.

Table 1
Comparison of Proposed Village Two Development

Land Use	Current SPA Plan	Proposed Project	Net Change
Single-Family (B&S) (du)	451	381	-70
Multi-Family (B&S) (du)	1,422	3,054	1,632
Other Residential* (du)	1,110*	1,110*	0*
Total Residential (du)	2,983	4,545	1,562
Industrial (ac)	60.7	60.7	0.0
Mixed Use and Commercial (ac)	21.0	22.5	1.5
CPF (ac)	6.3	20.6	14.3
Park (ac)	55.8	68.6	12.8
School (ac)	10.3	19.8	9.5
Open Space (ac)	200.2	212.6	12.4
Future Development (ac)	31.9	4.0	-27.9

* Other Residential is not a part of the proposed project, data is presented for information/analysis purposes.

B&S = Baldwin and Sons; du = dwelling units; ac = acres

Construction of the original project has already commenced. It is anticipated that approximately 250 residential dwelling units would be constructed per year. The additional uses (school, community purpose facilities, mixed-use commercial, light industrial uses, and park uses) would be complete by 2025.



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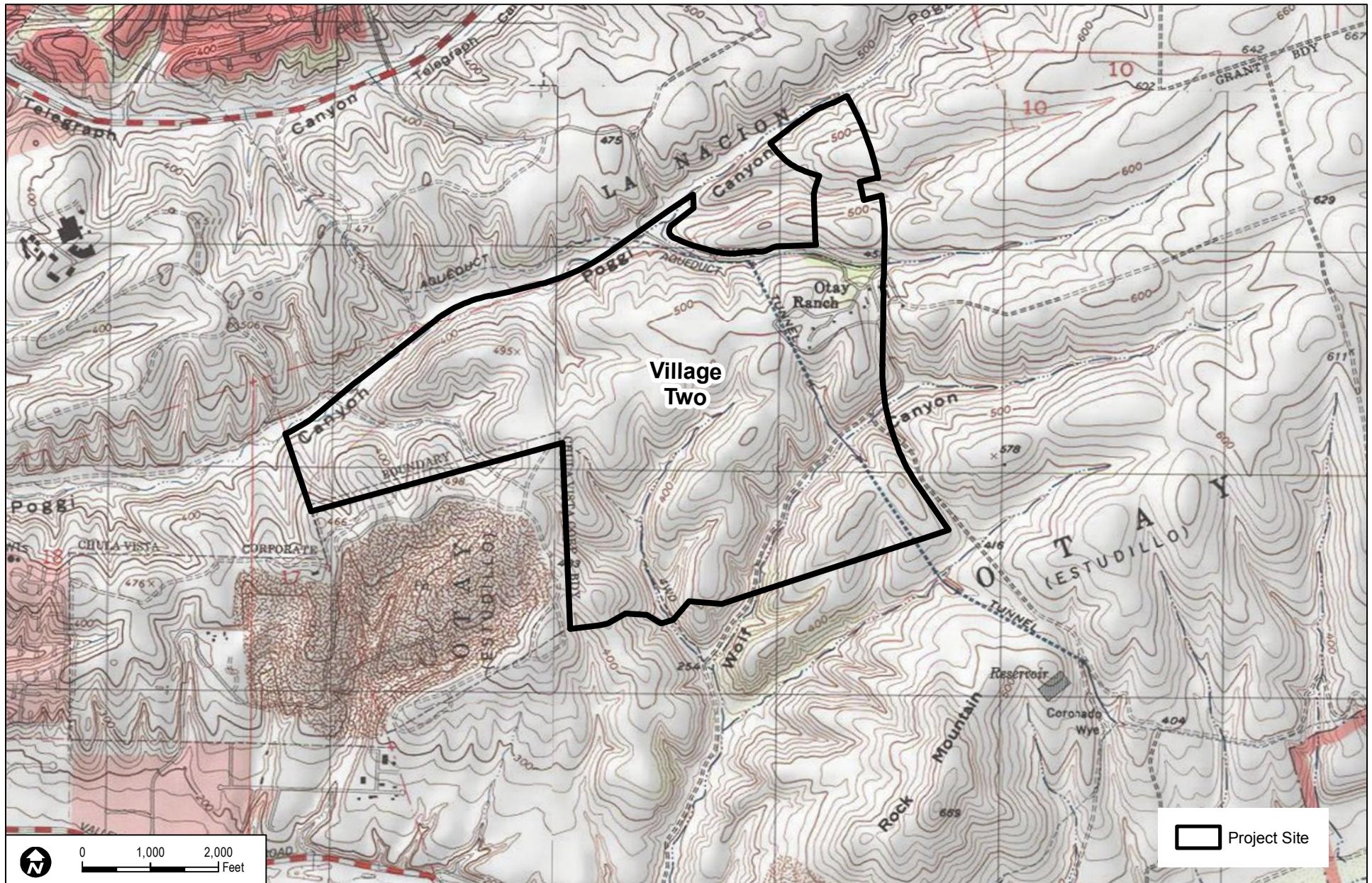


FIGURE 2

Vicinity Map

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AERIAL SOURCE: USGS 7.5 MINUTE SERIES QUADRANGLE

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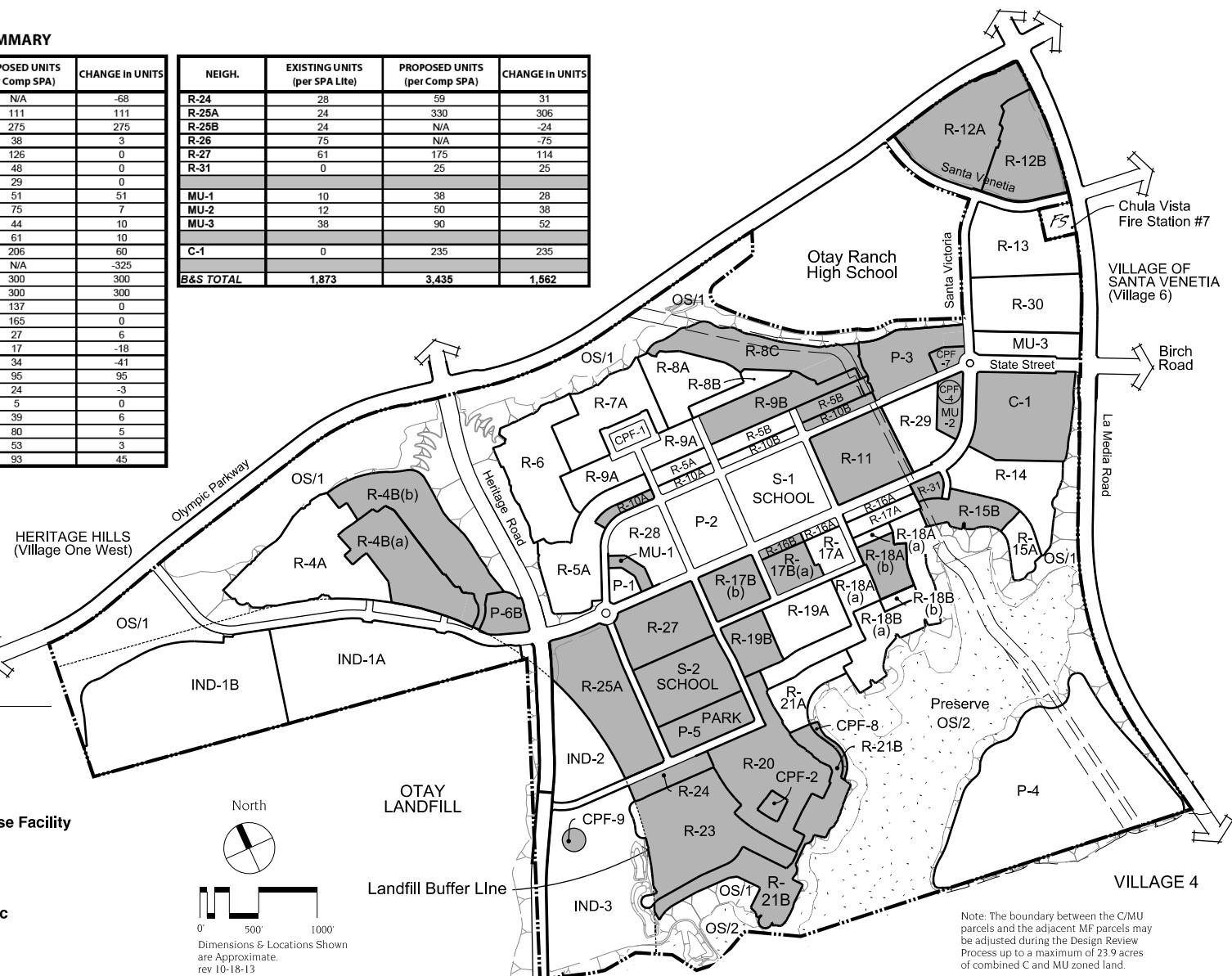
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VILLAGE 2 - AREA OF CHANGE SUMMARY

NEIGH.	EXISTING UNITS (per SPA Lite)	PROPOSED UNITS (per Comp SPA)	CHANGE In UNITS
R-4B	68	N/A	-68
R-4B (a)	N/A	111	111
R-4B (b)	N/A	275	275
R-5B	35	38	3
R-6	126	126	0
R-8A	48	48	0
R-8B	29	29	0
R-8C	N/A	51	51
R-9B	68	75	7
R-10A	34	44	10
R-10B	51	61	10
R-11	146	206	60
R-12	325	N/A	-325
R-12A	N/A	300	300
R-12B	N/A	300	300
R-13	137	137	0
R-14	165	165	0
R-15B	21	27	6
R-16B	35	17	-18
R-17B (a)	75	34	-41
R-17B (b)	N/A	95	95
R-18A (b)	27	24	-3
R-18B (b)	5	5	0
R-19B	33	39	6
R-20	75	80	5
R-21B	50	53	3
R-23	48	93	45
B&S TOTAL		1,873	3,435
CHANGE IN UNITS			1,562

NEIGH.	EXISTING UNITS (per SPA Lite)	PROPOSED UNITS (per Comp SPA)	CHANGE In UNITS
R-24	28	59	31
R-25A	24	330	306
R-25B	24	N/A	-24
R-26	75	N/A	-75
R-27	61	175	114
R-31	0	25	25
MU-1	10	38	28
MU-2	12	50	38
MU-3	38	90	52
C-1	0	235	235
B&S TOTAL		1,873	3,435
CHANGE IN UNITS			1,562



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SOURCE: HUNSAKER 2013

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FIGURE 3
Site Utilization Plan

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LEGEND

<i>R</i>	Single Family 2	<i>CPF</i>	Community Purpose Facility
<i>R</i>	Single Family 3	<i>C</i>	Commercial
<i>R</i>	Single Family 4	<i>P</i>	Park
<i>R</i>	Residential Multi Family 1	<i>OS/1</i>	Open Space One
<i>R</i>	Residential Multi Family 2	<i>OS/2</i>	Open Space Two
<i>MU</i>	Mixed Use	<i>BP</i>	Business Park
		<i>S</i>	School



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SOURCE: HUNSAKER 2013

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FIGURE 4
Proposed SPA Land Use Plan

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1.3 Terminology Used to Describe Sound

The following descriptions are provided for direct reference in reviewing the information in this section. Please refer to Appendix A for detailed definitions of technical terms used in the description and evaluation of noise.

Sound is defined as any pressure variation detected by the human ear. The preferred unit for measuring sound is the decibel (dB). The dB expresses the logarithmic ratio of the amount of energy radiating from a source in the form of an acoustic wave. Zero dB corresponds approximately to the threshold of healthy human hearing while 120–140 dB corresponds to an average person's threshold of pain.

The human ear is not equally responsive to all frequencies of the audible sound spectrum. An electronic filter is normally used when taking noise measurements that de-emphasizes certain frequencies in a manner that mimics the human ear's response to sound; this method is referred to as A-weighting. Sound levels expressed under the A-weighted system are sometimes designated dB(A). All sound levels discussed in this report are A-weighted.

The equivalent continuous sound level (L_{eq}) is a single noise level which, if held constant during the specified time period, would represent the same total energy as a fluctuating noise. L_{eq} values are commonly expressed for periods of one hour, but longer or shorter time periods may be specified.

The noise descriptor Community Noise Equivalent Level (CNEL) is typically used when describing community noise. CNEL averages the varying sound levels occurring over a 24-hour period and gives a 10-decibel penalty to noises occurring between the hours of 10:00 p.m.–7:00 a.m. and a 5-dB penalty for noise between the hours of 7:00–10:00 p.m. to take into account noise sensitivity during nighttime and evening hours, respectively.

1.4 Noise Criteria

1.4.1 California Code of Regulations, Title 24

Title 24 of the California Code of Regulations (CCR) sets standards that new development in California must meet. According to Title 24 Section 1207, interior noise levels are not to exceed 45 dB CNEL for new multi-family residences, hotels and other attached residences. Title 24 Section 1207 does not apply to single-family homes.

Section 1207 of Title 24 also requires that an interior acoustical study demonstrating that interior noise levels due to exterior sources will be less than or equal to 45 CNEL be performed for affected multi-family structures that are exposed to exterior noise levels in excess of 60 CNEL.

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1.4.2 City of Chula Vista General Plan

The City of Chula Vista General Plan Noise Element establishes noise criteria for various land uses (City of Chula Vista 2005). The maximum allowable exterior noise level at outdoor usable areas for new residential development is an annual CNEL of 65 dB. The City's exterior land use-noise compatibility guidelines for various land uses are depicted in Table 2. For residential development, the City typically applies the noise criteria at the backyards of single-family homes and at private patios, exterior balconies, and exterior common use areas of multi-family developments.

Table 2
City of Chula Vista Exterior Land Use/Noise Compatibility Guidelines

Land Use	Annual CNEL in Decibels					
	50	55	60	65	70	75
Residential						
Schools, Libraries, Daycare Facilities, Convalescent Homes, Outdoor Use Areas, and other Similar Uses Considered Noise Sensitive						
Neighborhood Parks, Playgrounds						
Community Parks, Athletic Fields						
Offices and Professional						
Places of Worship (excluding outdoor use areas)						
Golf Courses						
Retail and Wholesale Commercial, Restaurants, Movie Theaters						
Industrial, Manufacturing						

Also, Objective E22 (Protect the community from the effects of transportation noise) of the City's General Plan Noise Element, Policy E22.5 requires projects to construct appropriate mitigation measures to attenuate existing and projected traffic noise levels, in accordance with applicable standards, including the exterior land use/noise compatibility guidelines listed in Table 2.

For off-site project-related traffic, the City considers a noise impact to be significant if implementation of the proposed project results in noise levels that exceed the exterior noise limits established in the City's General Plan, including 65 dBA CNEL for residences, schools, and recreational uses; 70 dBA CNEL for offices, community parks and athletic fields; and 75 dBA CNEL for commercial uses. For transportation-related noise, a significant impact would occur if the proposed project results in a 3 dBA CNEL or greater increase in traffic noise on a roadway segment and the resultant noise level would exceed the General Plan exterior noise limits.

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1.4.3 City of Chula Vista Municipal Code

The City of Chula Vista Noise Ordinance (Municipal Code Section 19.68) contains regulations restricting land use related noise-generating activities and operations, so as to avoid noise nuisance in the community. Section 19.68.030 establishes the maximum allowable exterior noise limits, based upon the classification of the receiving land use. These standards typically apply to stationary sources such as noise from mechanical equipment or event noise, as opposed to traffic noise. For instance, a school, commercial enterprise, or industrial operation must not generate noise that exceeds a certain specified noise level at any property boundary where an adjacent residential use exists. The property-line noise standards are presented in Table 3.

Table 3
City of Chula Vista Exterior Property-Line Noise Limits

Receiving Land Use Category	Noise Level [dB(A)]		
	10 p.m. to 7 a.m. (Weekdays)	7 a.m. to 10 p.m. (Weekdays)	8 a.m. to 10 p.m. (Weekends)
	10 p.m. to 8 a.m. (Weekends)		
All residential (except multiple dwelling)	45		55
Multiple dwelling residential	50		60
Commercial	60		65
Light industry – I-R and I-L zone	70		70
Heavy industry – I zone	80		80

Title 17 of the Chula Vista Municipal Code (Environmental Quality), Chapter 24, addresses managing noisy and disorderly conduct. Section 17.24.040.C.8 specifically addresses restrictions against generation of construction noise in overnight periods. The use of any tools, power machinery, or equipment, or the conduct of construction and building work in residential zones so as to cause noises disturbing to the peace, comfort, and quiet enjoyment of property of any person residing or working in the vicinity, shall be prohibited between the hours of 10:00 p.m.–7:00 a.m., Monday–Friday, and between the hours of 10:00 p.m.–8:00 a.m., Saturday and Sunday, except when the work is necessary for emergency repairs required for the health and safety of any member of the community (City of Chula Vista 2010).

1.4.4 City of Chula Vista Multiple Species Conservation Program Subarea Plan

The Multiple Species Conservation Program (MSCP) Subarea Plan regulates impacts to sensitive biological resources, including noise impacts. In accordance with Section 7.5.2 of the Chula Vista Subarea Plan, Adjacency Management Issues, uses in or adjacent to the Preserve should be designed to minimize noise impacts. Berms or walls should be constructed adjacent to commercial areas and any other use that may introduce noises that could impact or interfere with

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wildlife utilization of the Preserve. Excessively noisy areas or activities adjacent to breeding areas, including temporary grading activities, must incorporate noise reduction measures or be curtailed during the breeding season of sensitive bird species, consistent with Table 3-5 of the MSCP Subregional Plan, included as Appendix A to the MSCP Subarea Plan. In general, the construction noise threshold for sensitive biological resources is an hourly average noise level of 60 dBA and no clearing, grubbing, and/or grading is permitted within the MSCP Preserve during the breeding season of the sensitive species present.

1.4.5 Otay Ranch GDP/SRP

The purpose of the Otay Ranch Noise goals, objectives and policies is to direct the identification of conditions under which noise occurs and provide general guidelines to protect Otay Ranch residents from the adverse effects of unwanted sound. Policy directions are provided to simultaneously control noise at its source, along its transmission path, and at the receiver site.

Goals, Objectives and Policies

- Goal:** Promote a quiet community where residents live without noise that is detrimental to health and enjoyment of property.
- Goal:** Ensure residents are not adversely affected by noise.
- Objective:** Otay Ranch shall have a noise abatement program to enforce regulations to control noise.
- Policy:** Prohibit excessive noises that are a detriment to the health and safety of residents.
- Policy:** Limit noise at the source, along the path of transmission and/or at the receiver site.
- Policy:** Reduce the need for noise mitigation through site and land use planning techniques, whenever feasible.
- Policy:** Consider the effects of noise, especially from transportation, in land use decisions to ensure noise compatibility.
- Policy:** Comply with applicable noise ordinances and performance standards in zoning ordinances.
- Policy:** Use the Environmental Review Process to evaluate the effects of noise.
- Policy:** Regularly review technological developments and building techniques that decrease the project related noise impacts on site and off site and specify needed noise mitigation measures.

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2.0 METHODOLOGIES AND INSTRUMENTATION

In order to establish baseline (existing) noise levels within the project area, several short-term noise measurements were conducted. Most measurements were conducted adjacent to roadways, for use in validating the traffic noise model and to characterize current ambient noise levels. One measurement was also conducted away from the influence of busy streets, in order to characterize the general existing noise environment typified by much of the project area where major roadways are currently absent.

To determine the existing noise levels and future noise levels from major transportation sources, short-term noise measurements were conducted adjacent to existing roadways in the project vicinity that currently contribute to the ambient noise levels within the project area. Noise modeling was conducted using the CadnaA computer noise model. CadnaA was used for this project because of its ability to present noise modeling results in both tabular form and graphically, as noise “contours” (i.e., lines or areas of equal nosiness). The traffic noise emission levels used as a basis for the calculations within CadnaA were provided by the Federal Highway Administration (FHWA) traffic noise prediction model (TNM version 2.5). Thus, CadnaA was used to determine noise levels associated with current average daily traffic volumes and to predict the noise levels from traffic volumes forecast to exist in the future. Data inputs used in the noise model included the number and types of vehicles on the roadway, vehicle speeds, and physical characteristics of the road and topography; as well as receiver and noise barrier heights and locations.

Because major roadways are typically the main contributor to the noise environment in residential areas, an evaluation of community noise must include examination of each substantial roadway within, or closely proximate to, a planned development that incorporates residential land uses. In the case of the proposed project, some of the major roadways that would directly influence noise within the project site in the future do not exist today. In these cases, where the future roadway is not yet available for noise measurements to be taken, an existing roadway with the same cross-section and similar characteristics as the “future” roadway was used for noise measurements. Assuming the same roadway configuration between the existing road and the future road it represents (width, number of travel lanes, pavement type, speed limit), the measurement of noise associated with traffic on the same type of roadway is valid for the purpose of calibrating the CadnaA model. With regard to the substitution of existing roadways for future roadways in the noise measurements/model validation, the following applies: Heritage Road does not currently exist south of Olympic Parkway; noise measurements were therefore taken along the existing segment of Heritage Road north of Olympic Parkway.

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The noise measurements were conducted using a laboratory-calibrated Piccolo digital integrating sound level meter. The accuracy of the sound level meter was verified before and after each measurement using a Rion NC-74 handheld field calibrator. The sound level meter meets the current American National Standards Institute standard for a Type 2 sound level meter.

Traffic counts were made during the noise measurements. To validate the noise model, the same traffic volume and vehicle composition ratios counted during the noise measurements were used along with the observed vehicle speed (which may differ from the posted speed limit for the roadway). Using vehicle counts and observed speeds, the modeled noise values were within two dB of the measured noise levels, which confirms the accuracy of the inputs used in the noise model (please see Section 3.2.2 for the model calibration results).

The future modeled traffic speed was assumed to be the posted speed limit for existing roads and anticipated speed limit for future roads. The truck percentages used in the noise model for existing and future scenarios on existing and future arterials were 2.0% medium trucks and 2.0% heavy trucks. This truck mix is based on vehicle surveys conducted for a number of similar roads in Chula Vista and San Diego County that allow truck traffic. Based upon observations during the noise measurements, a 1% vehicle composition was assigned to motorcycles for existing and future scenarios.

As part of the CNEL calculation process, based on typical travel patterns, the analysis assumed the average hourly traffic volume is approximately equal to 10% of the average daily trips (ADT). 10% of the ADT is generally accepted to be roughly equivalent to the worst-case hourly traffic volume; using this value in the noise model results in an average hourly equivalent noise level approximately equal to the CNEL for the corresponding ADT and actual hourly traffic distribution. Thus, this relationship results in a CNEL value that is representative of traffic noise resulting from typical daytime, evening and nighttime traffic distribution.

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3.0 EXISTING CONDITIONS

3.1 Project Setting

The project area is generally located along the southern boundary of the City of Chula Vista, east of Interstate 805, west of State Route 125 (SR-125), and north of State Route 905. The northern boundary of the project site is located immediately south of Olympic Parkway, and the eastern project boundary is located immediately west of La Media Road. Olympic Parkway has existing interchanges on Interstate 805 and SR-125. Heritage Road, which currently terminates at Olympic Parkway, is planned to roughly bisect the Village Two project site. Once extended to the south to intercept Main Street, Heritage Road will connect the project site with other roadways to the south. Regional access to the project is generally provided by the roadway facilities described above. Traffic along these major local roadways would be the dominant source of noise contributing to the future community noise level within the project site.

3.2 Ambient Noise Monitoring

3.2.1 Typical Existing Conditions (Undeveloped Land)

Today, much of the project site exists as undeveloped open space. Areas within Village Two that are not located immediately adjacent to an existing roadway would be expected to have ambient noise levels less than typical levels found in the urban environment. One short-term noise measurement was conducted within the Village Two project site in order to characterize the baseline conditions representative of the undeveloped areas (refer to Figure 4).

Table 4 provides the results of the noise measurement within Village Two. Assuming that the noise measurement represents the hourly average noise level (which is valid for environmental noise sources that are steady or nearly steady), an approximate CNEL value can be calculated by adding 7 dB to the hourly average noise level (Harris, 1979). Table 4 provides a calculated existing CNEL level, based on the approach of employing the measured L_{eq} value as the hourly average noise level.

Table 4
Existing Community Noise Equivalent Level (CNEL) Distant from Existing Roadways

Site ID	Description	Date/Time	L _{eq}	CNEL
1	Village Two Ambient	11/05/13 3:10–3:30 p.m.	50 dB	57 dB

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3.2.2 Existing Roadway-Related Noise and Modeled Calibration Results

Noise measurements were conducted along existing segments of the major roadways described for Village Two (see Section 3.1.1, above). Please refer to Figure 5, which depicts the location of noise measurements conducted for the assessment of roadway traffic noise. Table 5 provides descriptions of the measurement locations with respect to each roadway centerline, observed traffic speeds, measured noise levels (as equivalent noise level, or L_{eq}), concurrent traffic volumes for each vehicle type (i.e., number of vehicles passing the measurement point during the measurement), and the corresponding CadnaA noise modeling results. As shown in Table 5, the difference between the measured and modeled traffic noise levels was found to be one to two decibels for each of the measurements, which is regarded in the state of the practice (i.e., generally accepted and utilized methodologies by noise control practitioners) as an acceptable degree of tolerance between measured and modeled (California Department of Transportation 2009). No correction factors were applied to any of the subsequent traffic modeling results.

Table 5
Existing Measured Average Sound Levels Associated with
Local Roadways Near Village Two and Validation Results

Site	Description	Date/Time	Measured L_{eq}^1	Cars	MT ²	HT ³	Busses	MC ⁴	MPH ⁵	Corresponding Model Calibration Result (L_{eq})	Difference (Measured - Modeled)
2	Approximately 70 feet to center line of Olympic Parkway	11/05/13 2:10–2:30 p.m.	72 dB	936	0	17	14	10	50	71 dB	1 dB
3	Approximately 65 feet to center line of La Media Road	11/05/13 2:40–3:00 p.m.	59 dB	213	0	0	0	0	45	61 dB	2 dB
4	Approximately 65 feet to center line of Heritage Road	11/05/13 1:30–1:50 p.m.	68 dB	229	1	2	0	1	55	66 dB	2 dB

Notes:

1 Equivalent Continuous Sound Level (Time-Average Sound Level)

2 Medium Trucks (Includes busses)

3 Heavy Trucks

4 Motorcycle

5 Miles Per Hour (observed speed of traffic during noise measurement)

General Notes: Temperature 76-77 degrees, clear sky, calm wind.



● Noise Measurement Location
■ Project Site

FIGURE 5
Location of Field Noise Measurements

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3.3 Traffic Noise Modeling – Existing Conditions

The existing CNEL along major roadways anticipated to affect future noise levels within / adjacent to Village Two was determined based on the ambient noise measurements, using the current daily traffic volume pertinent to each road as identified in the Chen-Ryan traffic impact assessment (normalized for automobile [95%], medium and heavy truck [2% each]¹, and motorcycle [1%] percentages) in the traffic noise prediction model. The existing CNEL modeled for each major roadway is presented in Table 6. It should be noted the dB values in Table 6 calculated for existing roadway traffic volumes are on a CNEL basis, and are therefore different than the dB L_{eq} values measured for each roadway in the field (and presented in Table 5). The measured L_{eq} values simply reflect actual traffic occurring during the short term measurement, which is used to calibrate the model. The noise level (CNEL) from existing traffic volume is then calculated using the calibrated model.

Table 6
Existing Community Noise Equivalent Level (CNEL) Associated with Local Roadways

Description of Roadway/ Noise Modeling Location	Traffic Analysis Period	Traffic Volume (Average Daily Trips)	Observed /Modeled Average Traffic Speed	CNEL
Approximately 70 feet to center line of Olympic Parkway	Existing Conditions	5,269	50 MPH	73 dB
Approximately 65 feet to center line of La Media Road	Existing Conditions	1,641	45 MPH	67 dB
Approximately 65 feet to center line of Heritage Road	Existing Conditions	1,288	40 MPH	70 dB

Based upon the modeled CNEL values presented in Table 6, Olympic Parkway, La Media Road and Heritage Road currently generate noise levels in excess of 65 dB CNEL beyond the roadway rights-of-way.

¹ Includes busses.

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4.0 SIGNIFICANCE CRITERIA

Based on the criteria identified in Appendix G of the CEQA Guidelines, the proposed project would have a significant impact on noise if it would result in:

1. The exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
2. The exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels?
3. A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?
4. A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?
5. For a project located within an airport land use plan (ALUP) or, where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels?
6. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

Additionally, the proposed project would have a significant impact if found to be inconsistent with the City of Chula Vista's General Plan, the Otay Ranch General Development Plan, or other objectives and policies regarding noise thereby resulting in a significant physical impact (City of Chula Vista 2011).

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5.0 IMPACTS

5.1 On-Site Traffic Noise Exposure – Major Roadways

As described in Section 3.1, major local roadways providing direct access to the project site would be the predominant source of noise contributing to the future community noise level within Village Two. Future traffic along these major roadways represents the principle source for potential noise exposure levels that exceed adopted criterion for noise sensitive land uses within the project site. Figure 6 shows the roadway segments analyzed within Village Two as well as the regional roadway network.

To evaluate future on-site noise exposure levels from traffic along major roadways, the CadnaA noise prediction model (using FHWA's TNM version 2.5 emission levels) was run with worst-case traffic volumes as provided in the Village Two Traffic Impact Analysis (Chen Ryan 2014). Dudek compiled roadway traffic volumes for each roadway segment reported in the Chen Ryan analysis, for each year of analysis (i.e., existing, existing with build-out, 2015, 2020, 2025, and 2030). The tables in Appendix B provide the volume comparison for all roadway segments across all the analysis years. Without exception, for each of the major roadways with direct influence within any portion of the proposed project, the maximum traffic volume occurs in either Year 2025 or Year 2030. Years 2025 and 2030; therefore represent the worst-case on-site traffic noise exposure for the project.

Because of the size of the off-site traffic impact analysis area (as listed in Appendix B) and the number of associated roadway segments, a preliminary screening analysis² was done to estimate the relative increase in traffic noise from the project. Using this preliminary screening analysis, it was found that none of the major roadway or freeway segments in the Chen Ryan traffic impact analysis would have an estimated increase in noise levels of two dB or more (either in the Existing plus Project scenario or the Future with Project scenarios). Therefore the roadways modeled in detail using the CadnaA model were limited to those adjacent to the Village Two project site (Olympic Parkway, La Media Road and Heritage Road).

The noise modeling utilized the current site plans and grading elevations available from the project designers; off-site modeling used elevations from Google Earth; and the traffic speeds were the posted speed limits (for existing roadways) or the presumed speed limits for future roadways based upon roadway type (i.e., 40 mph for the Heritage Road extension south of

² Using the following basic relation: $\Delta = 10 \cdot \log(V_2/V_1)$, where Δ is the change in noise level, V_2 is the “new” volume, and V_1 is the “prior” volume. Ref: Harris, 1991

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Olympic Parkway). The assumed traffic mix for the arterials was 95% autos, 2% medium trucks (including buses), 2% heavy trucks and 1% motorcycles.

To evaluate noise exposure for future residential lots located within the project area, location points representing noise receivers were placed in the yard area of selected lots. In general, two receiver points (one at a height of five feet above the future, graded elevation and one at a height of 15 feet (in order to approximate the noise level at the second-floor façade) were specified to represent each block of approximately 4–7 side-by-side lots along the frontage of each major roadway within/adjacent to the project site. Upon completion of a run of the model, the noise exposure level is identified for each receiver point. Using this method, residential zones along each of the major roadways were assessed to determine if off-site traffic-related noise exposure could exceed the 65 dB CNEL exterior noise criterion at on-site residences.



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FIGURE 6
Modeled Roadway Segments

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Olympic Parkway provides access from Interstate 805 and SR-125 to Village Two, and is aligned along the northern boundary of the development portion of the Village. Olympic Parkway under the Year 2025 Plus Project scenario would carry up to 52,000 ADT adjacent to Village Two, and up to 39,300 ADT adjacent to Village Two in the Year 2030 Plus Project scenario . Residences are planned at the northern boundary of the development area, which are adjacent to Olympic Parkway. Modeled noise levels for representative noise-sensitive receptors are summarized in Table 7 (Year 2025 with Project), and Table 8 (Year 2030 with Project) and the traffic noise contours (Years 2025 and 2030 with Project) for Village Two are shown in Figures 7 and 8, respectively. As shown, the first row of homes closest to Olympic Parkway could be exposed to noise levels ranging to 67 dB CNEL from future traffic. This noise level associated with future Olympic Parkway traffic volumes would exceed the exterior noise criterion of 65 dB CNEL, and is considered a potentially significant impact. Mitigation for this potentially significant impact is provided, and involves construction of a sound wall along the top of the slope on the side of the lots adjacent to Olympic Parkway (see Section 6, Mitigation Measures, Mitigation Measure N-1).

Heritage Road would extend southward from Olympic Parkway through Village Two. Heritage Road is a major arterial forecast to carry up to 47,700 ADT through Village Two in Year 2025 and up to 53,800 ADT through Village Two in 2030. Modeled noise levels for representative noise-sensitive receptors are summarized in Tables 7 and 8, and the traffic noise contours (Years 2025 and 2030 with Project) for Village Two are shown in Figures 7 and 8. As shown, the first row of homes aligned closest to Heritage Road could be exposed to noise levels ranging to 62 dB CNEL from future traffic. This noise level associated with future Heritage Road traffic volumes would not exceed the exterior noise criterion of 65 dB CNEL, and is considered a less than significant impact. No mitigation is required.

La Media Road is located along the eastern boundary of Village Two. Currently La Media Road terminates at Santa Luna Street, but by Year 2030 it would extend southward to Main Street. La Media Road is a major arterial forecast to carry up to 41,800 ADT adjacent to Village Two in 2025 and up to 33,100 ADT adjacent to Village Two in 2030. Modeled noise levels for representative noise-sensitive receptors are summarized in Tables 7 and 8, and the traffic noise contours (Years 2025 and 2030 with Project) for Village Two are shown in Figures 7 and 8. As shown, the first row of homes aligned closest to La Media Road could be exposed to noise levels ranging to 64 dB CNEL from future traffic. This noise level associated with future La Media Road traffic volumes would not exceed the exterior noise criterion of 65 dB CNEL, and is considered a less than significant impact. No mitigation is required.

Tables 7 and 8 and Figures 9 and 10 present the noise levels and corresponding noise contours with the recommended sound walls.

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Interior noise levels at residences adjacent to Olympic Parkway, Heritage Road and La Media Road would have the potential to exceed 45 dBA CNEL; therefore, a potentially significant impact related to interior noise levels would also occur. Mitigation for this potentially significant impact is provided (see Section 6, Mitigation Measures, Mitigation Measure N-2 and N-3).

Receiver V2-48 represents a mixed-use land area; such an area could include retail commercial, outdoor dining/use areas or similar land uses. As shown in Table 7, the predicted noise level at this location would not exceed the City's 65 dB CNEL noise standard for outdoor dining/use areas, and would therefore be less than significant.

Table 7
Traffic Noise Modeling Results (Year 2025) - Village Two

Receiver #	Yr2025 w Project (CNEL)	Significant Impact?	Yr2025 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-1	65	No	63	No
V2-1-2	66	Yes	66	Yes
V2-2	65	No	63	No
V2-2-2	67	Yes	67	Yes
V2-3	65	No	64	No
V2-3-2	66	Yes	66	Yes
V2-4	60	No	57	No
V2-4-2	61	No	59	No
V2-5	63	No	60	No
V2-5-2	64	No	63	No
V2-6	50	No	50	No
V2-6-2	52	No	52	No
V2-7	49	No	49	No
V2-7-2	50	No	49	No
V2-8	50	No	50	No
V2-8-2	52	No	50	No
V2-9	49	No	49	No
V2-9-2	48	No	48	No
V2-10	47	No	47	No
V2-10-2	47	No	46	No
V2-11	56	No	56	No
V2-11-2	55	No	55	No
V2-12	57	No	57	No
V2-12-2	56	No	55	No
V2-13	54	No	48	No
V2-13-2	54	No	54	No
V2-14	58	No	58	No
V2-14-2	57	No	58	No

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Table 7
Traffic Noise Modeling Results (Year 2025) - Village Two

Receiver #	Yr2025 w Project (CNEL)	Significant Impact?	Yr2025 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-15	54	No	53	No
V2-15-2	55	No	55	No
V2-16	52	No	51	No
V2-16-2	53	No	56	No
V2-17	56	No	55	No
V2-17-2	57	No	57	No
V2-18	58	No	58	No
V2-18-2	59	No	59	No
V2-19	54	No	52	No
V2-19-2	55	No	53	No
V2-20	56	No	53	No
V2-20-2	59	No	59	No
V2-21	54	No	52	No
V2-21-2	55	No	53	No
V2-22	59	No	59	No
V2-22-2	60	No	60	No
V2-23	51	No	51	No
V2-23-2	53	No	51	No
V2-24	58	No	58	No
V2-24-2	59	No	59	No
V2-25	57	No	55	No
V2-25-2	59	No	59	No
V2-26	51	No	50	No
V2-26-2	51	No	50	No
V2-27	59	No	58	No
V2-27-2	60	No	60	No
V2-28	58	No	56	No
V2-28-2	59	No	59	No
V2-29	57	No	54	No
V2-29-2	57	No	57	No
V2-30	51	No	49	No
V2-30-2	51	No	50	No
V2-31	58	No	58	No
V2-31-2	59	No	59	No
V2-32	50	No	48	No
V2-32-2	50	No	49	No
V2-33	58	No	56	No
V2-33-2	58	No	55	No

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Table 7
Traffic Noise Modeling Results (Year 2025) - Village Two

Receiver #	Yr2025 w Project (CNEL)	Significant Impact?	Yr2025 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-34	61	No	57	No
V2-34-2	61	No	61	No
V2-35	51	No	51	No
V2-35-2	52	No	52	No
V2-36	50	No	49	No
V2-36-2	50	No	50	No
V2-37	49	No	47	No
V2-37-2	49	No	48	No
V2-38	57	No	57	No
V2-38-2	57	No	57	No
V2-39	57	No	56	No
V2-39-2	57	No	56	No
V2-40	54	No	54	No
V2-40-2	54	No	54	No
V2-41	53	No	53	No
V2-41-2	53	No	53	No
V2-42	53	No	52	No
V2-42-2	53	No	52	No
V2-43	48	No	49	No
V2-43-2	49	No	49	No
V2-44	53	No	52	No
V2-44-2	55	No	55	No
V2-45	53	No	52	No
V2-45-2	54	No	54	No
V2-46	53	No	53	No
V2-46-2	54	No	54	No
V2-47	50	No	50	No
V2-47-2	51	No	51	No
V2-48	60	No	60	No

Note: Receiver numbers ending in "-2" (V2-8-2, etc) represent second-story noise exposures; otherwise, reported noise levels represent ground-floor noise exposures.

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Table 8
Traffic Noise Modeling Results (Year 2030) - Village Two

Receiver #	Yr2030 w Project (CNEL)	Significant Impact?	Yr2030 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-1	65	No	62	No
V2-1-2	66	Yes	65	No
V2-2	65	No	62	No
V2-2-2	67	Yes	66	Yes
V2-3	65	No	63	No
V2-3-2	66	Yes	65	No
V2-4	60	No	59	No
V2-4-2	61	No	60	No
V2-5	63	No	62	No
V2-5-2	64	No	63	No
V2-6	50	No	48	No
V2-6-2	52	No	50	No
V2-7	49	No	48	No
V2-7-2	50	No	48	No
V2-8	50	No	48	No
V2-8-2	52	No	48	No
V2-9	49	No	48	No
V2-9-2	48	No	47	No
V2-10	47	No	46	No
V2-10-2	47	No	45	No
V2-11	56	No	55	No
V2-11-2	55	No	54	No
V2-12	57	No	56	No
V2-12-2	56	No	54	No
V2-13	54	No	47	No
V2-13-2	54	No	53	No
V2-14	58	No	57	No
V2-14-2	57	No	56	No
V2-15	54	No	52	No
V2-15-2	55	No	54	No
V2-16	52	No	50	No
V2-16-2	53	No	54	No
V2-17	56	No	54	No
V2-17-2	57	No	56	No
V2-18	58	No	57	No
V2-18-2	59	No	58	No
V2-19	54	No	51	No
V2-19-2	55	No	52	No

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Table 8
Traffic Noise Modeling Results (Year 2030) - Village Two

Receiver #	Yr2030 w Project (CNEL)	Significant Impact?	Yr2030 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-20	56	No	52	No
V2-20-2	59	No	57	No
V2-21	54	No	51	No
V2-21-2	55	No	52	No
V2-22	59	No	58	No
V2-22-2	60	No	59	No
V2-23	51	No	50	No
V2-23-2	53	No	50	No
V2-24	58	No	57	No
V2-24-2	59	No	58	No
V2-25	57	No	54	No
V2-25-2	59	No	58	No
V2-26	51	No	49	No
V2-26-2	51	No	49	No
V2-27	59	No	58	No
V2-27-2	60	No	59	No
V2-28	58	No	56	No
V2-28-2	59	No	60	No
V2-29	57	No	54	No
V2-29-2	57	No	58	No
V2-30	51	No	49	No
V2-30-2	51	No	50	No
V2-31	58	No	59	No
V2-31-2	59	No	60	No
V2-32	50	No	48	No
V2-32-2	50	No	49	No
V2-33	58	No	56	No
V2-33-2	58	No	56	No
V2-34	61	No	57	No
V2-34-2	61	No	62	No
V2-35	51	No	51	No
V2-35-2	52	No	52	No
V2-36	50	No	49	No
V2-36-2	50	No	51	No
V2-37	49	No	47	No
V2-37-2	49	No	48	No
V2-38	57	No	58	No
V2-38-2	57	No	58	No

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Table 8
Traffic Noise Modeling Results (Year 2030) - Village Two

Receiver #	Yr2030 w Project (CNEL)	Significant Impact?	Yr2030 w Project w walls (6 foot height) (CNEL)	Significant Impact?
V2-39	57	No	57	No
V2-39-2	57	No	57	No
V2-40	54	No	54	No
V2-40-2	54	No	55	No
V2-41	53	No	53	No
V2-41-2	53	No	53	No
V2-42	53	No	52	No
V2-42-2	53	No	52	No
V2-43	48	No	48	No
V2-43-2	49	No	49	No
V2-44	53	No	51	No
V2-44-2	55	No	54	No
V2-45	53	No	51	No
V2-45-2	54	No	53	No
V2-46	53	No	52	No
V2-46-2	54	No	53	No
V2-47	50	No	50	No
V2-47-2	51	No	50	No
V2-48	60	No	62	No

Note: Receiver numbers ending in “-2” (V2-8-2, etc) represent second-story noise exposures; otherwise, reported noise levels represent ground-floor noise exposures.

5.2 Off-Site Noise Impacts Associated with Project Traffic

Traffic related noise impacts, especially in the context of a master plan development analysis, must primarily evaluate the future noise environment resulting from long-range community build-out. This is performed using the traffic volumes anticipated from General Plan buildout, as assessed by the assigned project transportation engineer. Future project traffic volumes within the development are largely derived from the project itself, and are addressed by noise barriers and other measures (see Section 6, Mitigation Measures). With distribution of project generated trips onto the area roadway network off site, the noise contribution from project-related trips versus regional traffic tends to diminish, as discussed in Section 5.1.

To evaluate the change in noise level on existing off-site noise-sensitive receivers from project trip contributions, traffic noise modeling was performed using the CadnaA noise model. First, the approximate geometry and distance from the roadway centerline to the closest existing noise sensitive use located along each roadway segment of concern was determined from aerial imagery (Google Earth), and receiver numbers were assigned for each

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modeled sensitive receptor. The presence or absence of community perimeter walls and/or other intervening terrain was also accounted for in the CadnaA model, using aerial imagery (Google Earth). Next, existing traffic volume data (on an average daily trip basis) for each segment was entered into the model, using the posted speed limit for each road segment as the input speed for vehicles, and existing noise levels were calculated. Thereafter, both existing and project traffic volume data was entered into the model and “with Project” noise levels determined. Lastly, the “Existing Plus Project” traffic volumes were compared with the existing volumes to determine whether the project increase resulted in a significant impact. The results are presented in Table 9.

Table 9
Project Contribution to Off-Site Traffic Noise – Existing Plus Project
(Off-Site Traffic Noise Level Increase)

Roadway (segment)	Rcvr #	CNEL (dB)		
		Existing	Existing + Project	dB Change
Olympic Parkway Brandywine to Santa Victoria	1	55	56	1
	2	56	57	1
Olympic Parkway Santa Victoria to Heritage Road	3	58	58	0
	4	56	56	0
	5	55	56	1
	6	57	58	1
	7	59	60	1
	8	60	60	0
	9	57	58	1
Heritage Road north of Olympic Parkway	10	57	58	1
	11	55	56	1
	12	60	60	0
Olympic Parkway Heritage Road to Santa Venetia Street	13	61	61	0
	14	59	59	0
	15	54	54	0
	16	55	55	0
Olympic Parkway Santa Venetia Street to La Media Road	17	58	58	0
	18	60	60	0
	19	58	58	0
La Media Road north of Olympic Parkway	20	58	58	0
	21	63	63	0
Olympic Parkway east of La Media Road	22	62	63	1
	23	60	60	0
La Media Road Olympic Parkway to Santa Venetia	24	58	58	0

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Table 9
Project Contribution to Off-Site Traffic Noise – Existing Plus Project
(Off-Site Traffic Noise Level Increase)

Roadway (segment)	Rcvr #	CNEL (dB)		
		Existing	Existing + Project	dB Change
La Media Road Santa Venetia to Birch	25	59	60	1
	26	60	61	1
	27	59	60	1
	28	58	59	1
La Media Road south of Birch	29	55	56	1
	30	53	54	1
	31	51	52	1
	32	49	50	1
	33	45	46	1

^a Sound level with all pertinent equipment operating.

Source: U.S. Environmental Protection Agency 1971

As shown above in Table 9, in all instances the addition of project traffic to the roadway network would result in an increase in the CNEL of one decibel or less. In the context of community noise, a change in sound level of one decibel or less is not readily detectable.

As mentioned previously, the City considers a noise impact to be significant if the existing condition is below 65 dB CNEL and with the project conditions, the noise level exceeds 65 dB CNEL. If the existing noise level is 65 dB CNEL or greater and the project impact increases the noise level by three dB or more (an audible increase), a significant impact would occur. The project would not cause noise levels to increase from below 65 dB CNEL to greater than 65 dB CNEL along any of the modeled existing off-site roadways with adjacent noise-sensitive land uses. In addition, the existing homes along the nearby segments of the roads shown in Table 9 already include sound walls designed to reduce the noise exposure from the adjacent roadway to 65 dB CNEL or less. These sound walls were previously constructed in anticipation of substantial increases in the traffic volume along these roadways. The traffic noise modeling conducted as part of this noise assessment accounts for the residential sound walls (please refer to the CD-ROM containing the CadnaA model printouts). The CNEL values depicted in Table 9 reflect the noise on the residential side of the sound walls along the residential property boundary. Because the noise level increase from the project would not be substantial and the resulting noise levels are below the applicable 65 dB CNEL threshold, off-site traffic noise impacts would be less than significant.

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The project's contributions to long-term traffic noise levels on the roadway network are discussed in Section 5.8, Cumulative Impacts. When full project build-out has occurred in Year 2030, the proposed project's contribution to overall traffic volumes on the completed roadway network would be insignificant. As mentioned previously, for each of the major roadways with direct influence within any portion of the project, the maximum traffic volume occurs in 2025 or 2030. Using the "Year 2025 Plus Project" and "Year 2030 Plus Project" traffic prediction, therefore, represents the worst-case on-site traffic noise exposure for the project.

5.3 Noise Generation – Commercial and Industrial Land Uses

One commercial/mixed use site and three mixed use sites are designated for Village Two. These sites are envisioned to provide opportunities for neighborhood-oriented retail, such as grocery and convenience stores, services for residences including financial institutions, health clubs, insurance agencies, and restaurants. The mixed use sites are centrally located between residences and the school (S-2) and park site.

Sources of commercial noise typically include activities at loading/unloading docks and parking lots; heating/ventilation and air conditioning equipment (HVAC); maintenance activities; and additional truck traffic along adjacent roads.

Noise levels associated with the commercial activities would vary depending on the number of delivery trucks, loading dock areas and customer traffic generated by the commercial site, as well as the location of parking areas. Similarly, HVAC equipment noise would vary depending on the number and types of equipment selected. Typical HVAC equipment can result in noise levels that average between 50 and 65 dBA L_{eq} at 50 feet (City of Santa Ana 2010). To avoid potential impacts related to commercial use noise, mitigation is provided (see Section 6, Mitigation Measures, Mitigation Measure N-4).

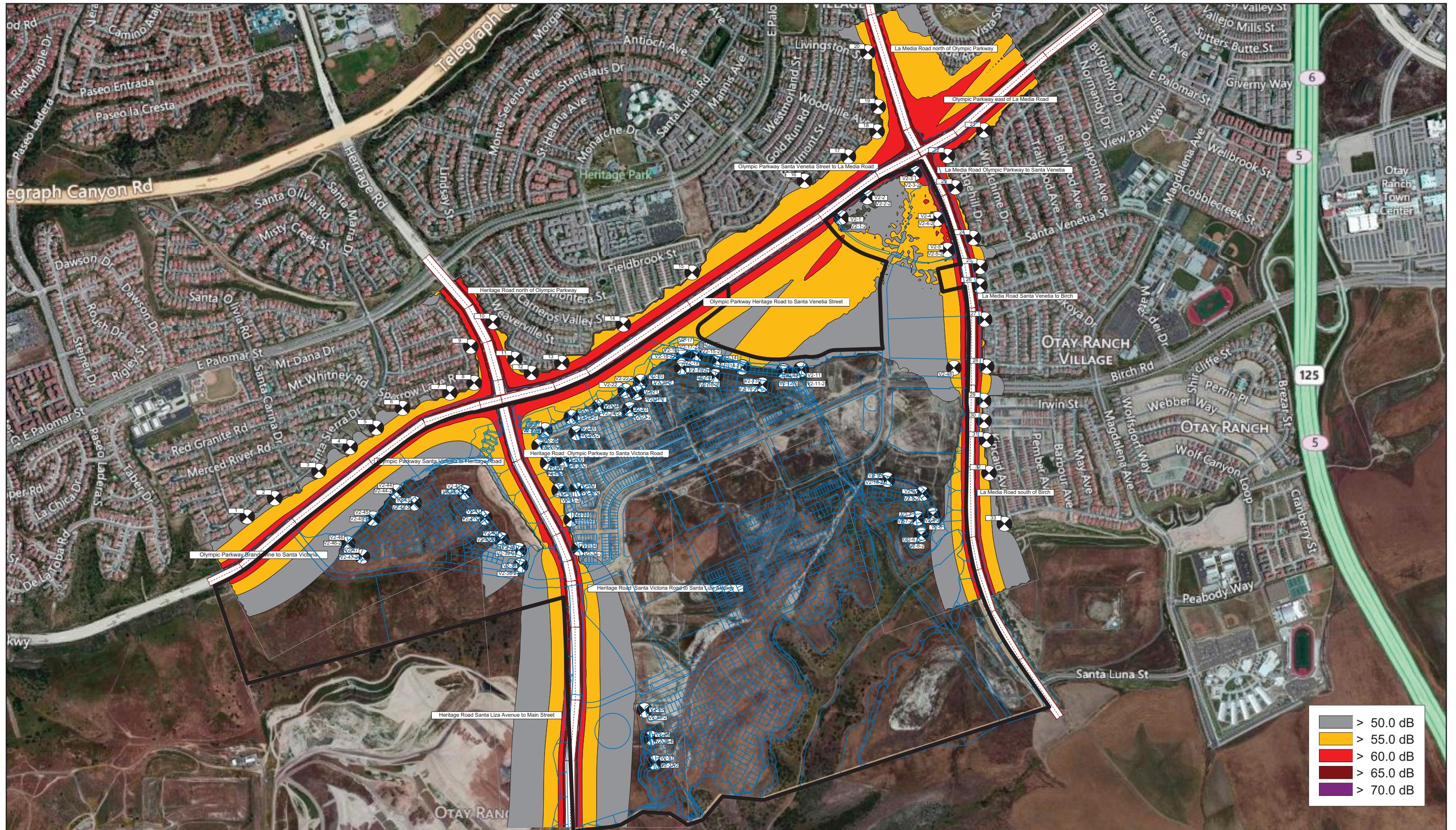


FIGURE 7

Otay Ranch Village Two Comprehensive SPA Plan Amendment - Noise Assessment Technical Report

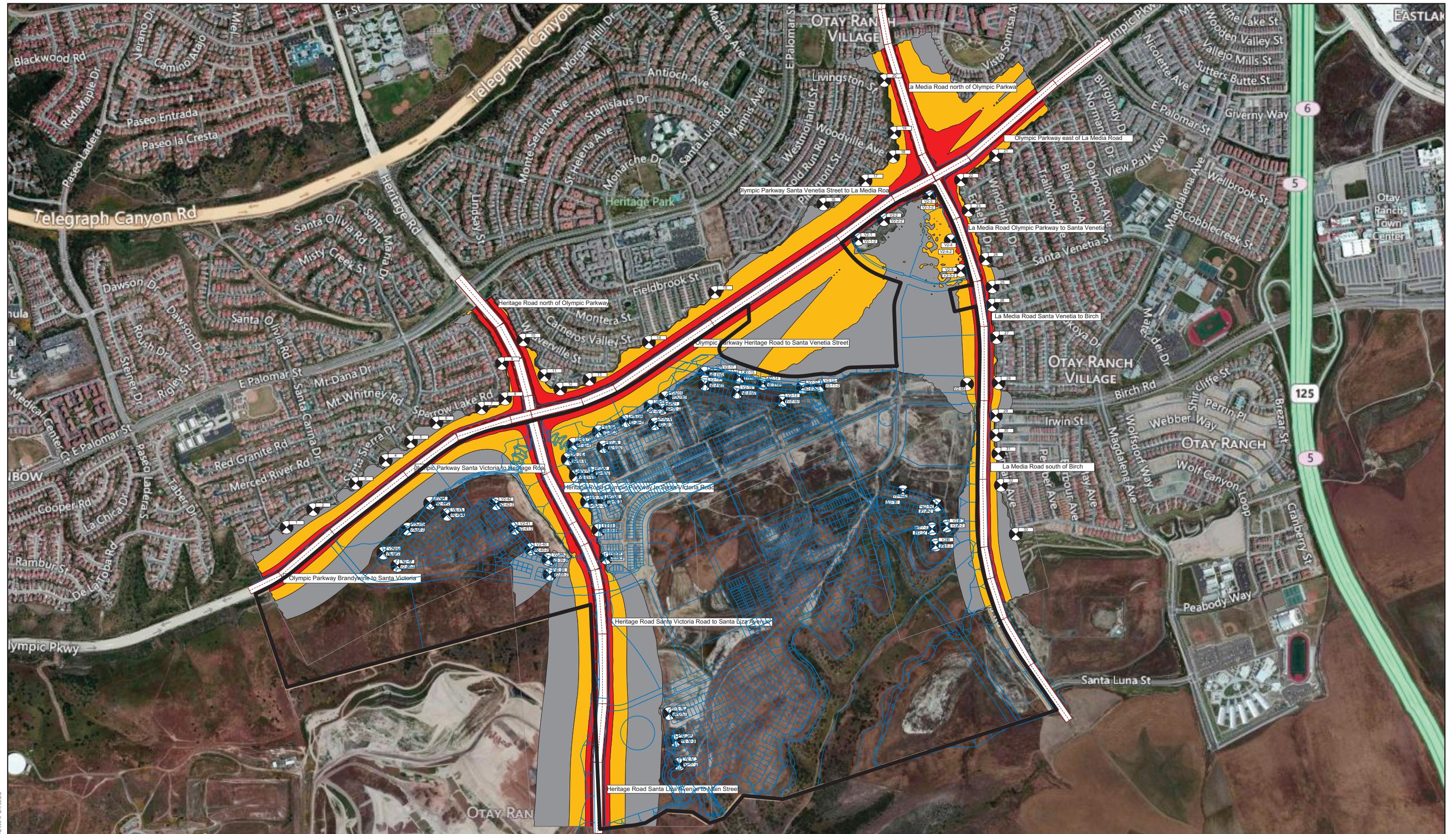
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Otay Ranch Village Two Comprehensive SPA Plan Amendment - Noise Assessment Technical Report

FIGURE 8
Village Two Predicted Traffic Noise Contours (dB CNEL) Future (Year 2030) with Project

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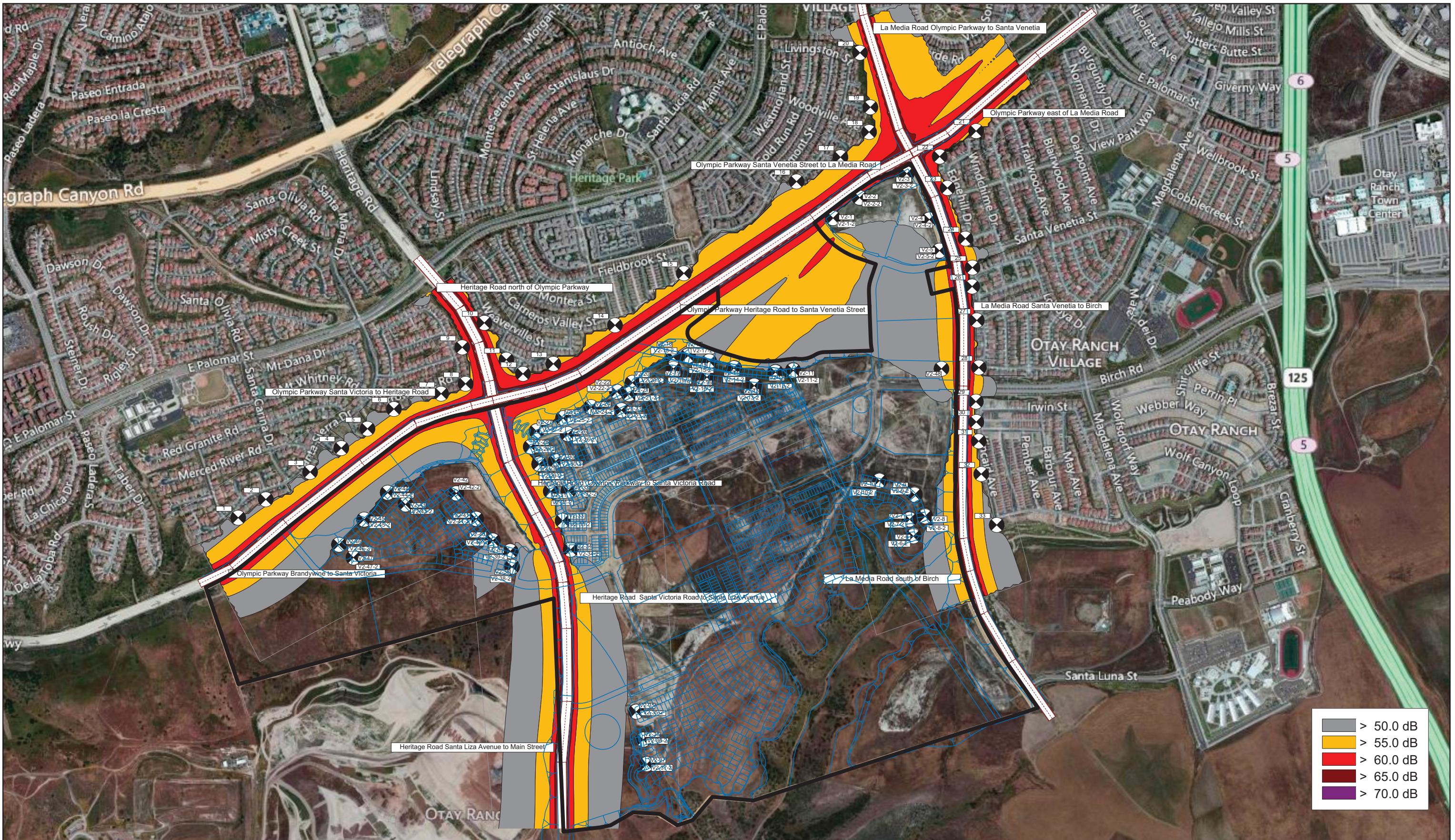
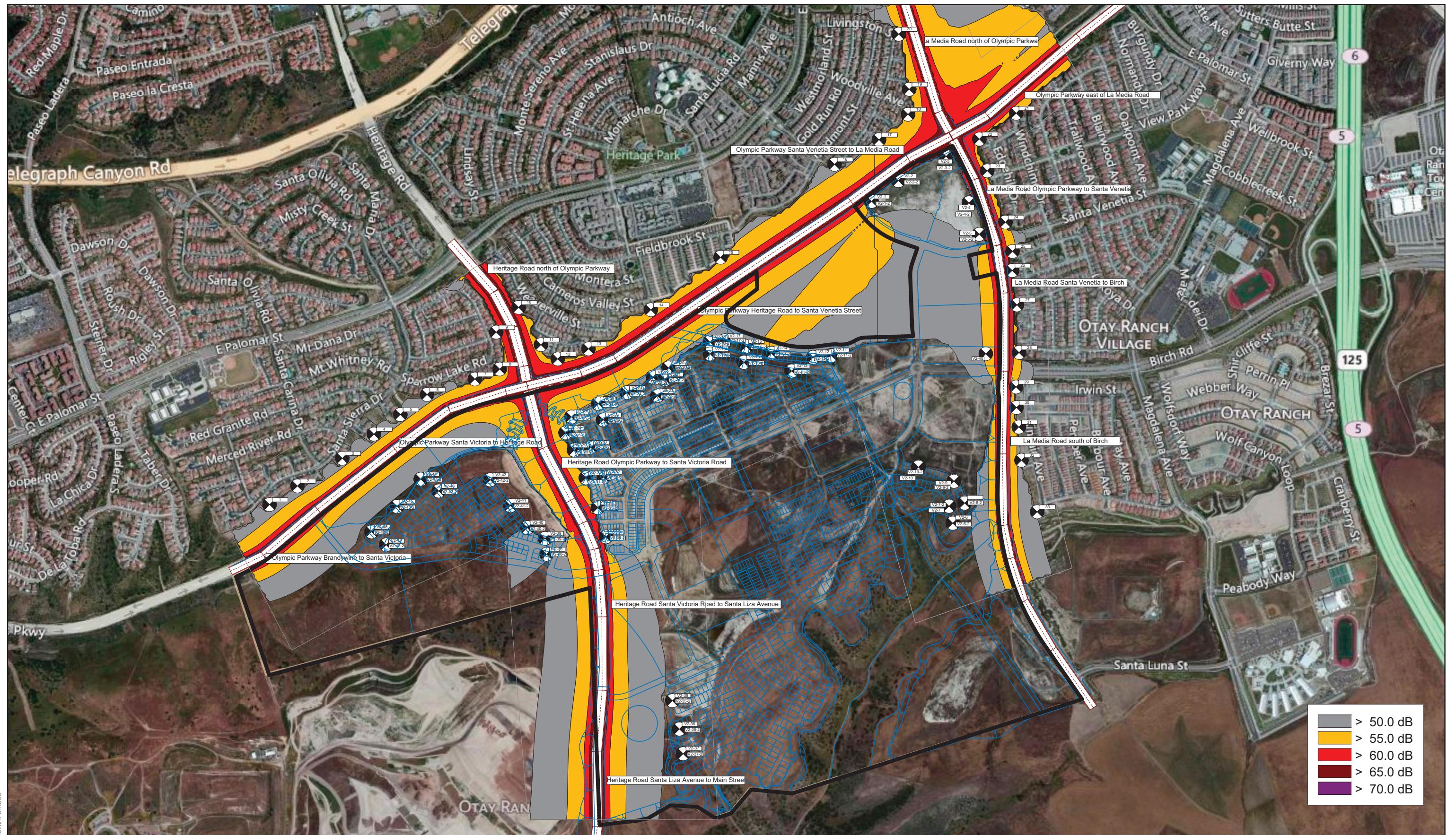


FIGURE 9
Village Two Predicted Traffic Noise Contours (dB CNEL) Future (Year 2025) with Project with Walls

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Village Two Predicted Traffic Noise Contours (dB CNEL) Future (Year 2030) with Project with Walls

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Industrial zones are designated along the east and west sides of Heritage Road south of Santa Victoria Road, near the southwest side of Village Two. The proposed industrial areas are encompassed within the buffer for the municipal landfill located west of the project boundaries. Because of the presence of the landfill along the proposed industrial use zone, the project industrial land uses are not anticipated to have noise impacts upon neighboring off-site areas and land uses. In other words, sanitary landfill operations are quasi-industrial themselves, and are not classified as noise-sensitive. Industrial land uses possess many of the same noise generating characteristics as commercial uses (loading/unloading docks and parking lots; HVAC equipment; maintenance activities; and additional truck traffic along adjacent roads), but often include manufacturing processes and materials handling operations with additional noise generation potential. These industrial activities would have the potential to result in average noise levels above the City's noise thresholds. Therefore, each proposed industrial development will be required to prepare a detailed acoustic evaluation as part of the development permit application review process to ensure elevated noise generation, which could adversely affect project residences to the south, are avoided. To avoid any potential impacts related to industrial use noise, mitigation is provided (see Section 6, Mitigation Measures, Mitigation Measure N-5).

5.4 Parks and Recreation Related Noise

Six park sites are planned for Village Two. Visitors to the parks would participate in active and passive recreational activities. At any one location, the hourly average sound level associated with recreational noise is difficult to predict due to many variables. These factors include the type of recreational activity, the number of players and spectators, the location of people and the amount and level of conversation and cheering. However, to determine the approximate noise levels that would be generated at ball fields/other recreational activities and predict potential noise impacts, noise measurements conducted by Dudek staff at several existing recreational parks, including Stagecoach Park in Carlsbad, Cardiff Sports Park in Encinitas, and Vista National Little League in Vista, were utilized. The proposed project would have similar ball fields as these facilities. The results of these measurements indicate that ball field activities (including use of a PA system) generate a one-hour average noise level of approximately 55–65 dB at a distance of 50 feet from the stands and/or spectator areas.

Based upon the most recent design drawings, three of the proposed parks would be separated from residences or other noise-sensitive land uses by a local roadway of approximately 60 feet or more. However, three of the parks (P-1, P-3, P-6B) would be located adjacent to residences. Thus, noise levels from the proposed parks could exceed 65 dB during daytime park operating hours. Mitigation, in the form of setback requirements for parks adjacent to noise-sensitive land uses, is provided (see Section 6, Mitigation Measures, Mitigation Measure N-6)

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According to the Chula Vista Municipal Code Section 2.66.270, some parks in the city are permitted to stay open as late as 10:30 p.m.; the noise threshold between 10:00 p.m. and 10:30 p.m. is lower and therefore there could be significant impacts after 10 p.m. For this reason, a mitigation measure (Mitigation Measure N-7) is included specifying that the parks within Village Two would be closed after 10 P.M. With this mitigation measure, nighttime noise at the parks would be negligible. Therefore, recreational noise at nearby noise sensitive land uses would be below the City's noise standard of 65 dB CNEL and less than significant.

Scheduled maintenance by maintenance crews would occur at these park sites. Maintenance activities would include the use of gasoline-powered mowers, trimmers, blowers, and edgers resulting in intermittent short-term temporary noise increases. Maintenance activities are permitted uses and would be subject to the one-hour L_{eq} noise limits of 60 dBA in multi-family neighborhoods. Additionally, maintenance equipment would not be operating at any one location for more than a few minutes, and all equipment would not be operating simultaneously. Due to the limited amount of time equipment would be operating in one location, operation of landscape equipment would generally not exceed the hourly noise level limit at a particular receptor. Therefore, landscape maintenance would result in a less than significant impact.

5.5 School-Related Noise

Two elementary schools are designated for Village Two, one of which was approved as part of the SPA Plan EIR (S-1), and one of which is being proposed as part of this project (S-2). Schools are both noise-sensitive and noise generating. With respect to its position as a noise-sensitive land use, the relationship to major roadways within the project site is the primary determinant for whether potentially significant increased noise levels could occur at the school sites.

Proposed school site S-1 is located approximately at the center of the development area, bounded on all four sides by local roads (including Santa Victoria Road to the south). S-1 has already been analyzed as part of the SPA Plan EIR. School site S-2 is located south of Santa Victoria Road, and east of Heritage Road. A residential site (Neighborhood R-27) is planned to be to the north of S-2, and a park site (P-5) is planned to be to the south. Local roads are planned to be to the east and west sides for S-2. Traffic volume projections are not available for the roads bordering these school sites; therefore, future noise contours from roadway operations are not available. However, it is possible that future traffic volumes carried on one or more of these bordering roads could have an associated 65 dB CNEL contour that extends to the school sites. Therefore, traffic-related noise exposure levels within exterior use areas for the schools (i.e., playground, sports fields, athletic courts, etc.) could exceed the established noise standards, thereby resulting in potentially significant noise impacts. To avoid potentially

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significant noise impacts, mitigation is provided (see Section 6, Mitigation Measures, Mitigation Measure N-8).

With respect to being a noise-generating land use, schools may generate noise from amplified noise such as bells and loudspeaker announcements. Bells or other announcement devices are classified as stationary non-emergency signaling devices by the city. The noise ordinance prohibits schools from sounding these devices for more than 120 seconds (2 minutes) continually in an hourly period, or intermittent sounding over a five-minute period in any hour. The elementary schools would comply with city noise standards and would not result in significant impact related to bells and loudspeaker announcements.

The elementary schools would each include recreational facilities in the form of a school playground. Noise from these facilities would be limited to daytime hours. The level of activity at these facilities during recess and afterschool activities is assumed to be similar to active use of the multi-purpose fields at the Parks and Recreation areas addressed in Section 5.4. Therefore, the schools would have the potential to generate noise levels up to 65 dBA at 50 feet.

The elementary school sites in Village Two have a roadway on each frontage of the school site, separating the school site from adjacent residential properties. The exceptions to this are the northern and southern boundaries of S-2, which are bordered by residential and park land uses, respectively. For the portions of S-2 directly adjacent to land uses, Mitigation Measure N-8 would reduce potential adjacency impacts to a less than significant level. For the frontages of the school sites separated by a roadway, the boundary roads have a minimum right-of-way width of 58 feet. Based upon the noise source data described above, and typical environmental (i.e., outdoor) attenuation rates for a point source, playground noise from the school would not be greater than 65 dB (L_{eq}) at the edge of the road right-of-way adjacent to residential property boundaries (the right-of-way edge is at not less than 58 feet from the playground, the playground noise would be 65 dB or less at 50 feet, or 8 feet within the right-of-way boundary). For comparison to the General Plan, the sound exposure level from the playground at 50 feet would be approximately 51 dB CNEL, which is within acceptable ranges. Therefore, a significant impact would not occur as a result of these activities.

Otay Ranch High School is an existing source of operational noise, and is located north of Village Two. Noise sources associated with Otay Ranch High School include bells, other signaling devices, and activities on the campus such as crowd noise and loudspeakers at football games. Bells and other signaling devices are classified as stationary non-emergency signaling devices by the City, and schools are prohibited in the noise ordinance from sounding these devices for more than 120 seconds continually in an hourly period or intermittent sounding over a five-minute period in any hour. Typically, the main sources of noise from high schools to the

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surrounding area are organized sports activities at the football stadium that involve amplified speakers and crowd noise. The football field is located on the southwest side of the campus; the nearest loudspeaker (one of six) is located approximately 140 feet north of the proposed residential uses in Neighborhood R-8C of Village Two. The field's "acoustic centroid"⁴ is located approximately 320 feet from the nearest residential lot in Neighborhood R-8C.

The Noise Technical Report for Otay Ranch Villages 2 and 3, Planning Area 1B, and a Portion of Village 4 (RECON 2005) determined that the worst-case noise level for a championship game event at the Otay Ranch High School would be 71 dBA at a distance of 50 feet from each of the stadium loudspeakers located approximately 30 feet above the playing field. This type of event is considered a worst-case scenario for game noise because championship games generally include a full stadium of spectators. When the speakers were not in use, crowd noise was estimated to emit a noise level of approximately 65 dBA at 60 feet from the top of the stadium stands. Based on these estimates, football games currently generate a noise level of approximately 63 dB at the proposed multi-family residential used in Neighborhood R-8C when speakers are in use, and 50 dB when crowd noise is the primary noise source. Therefore, recreational activities at Otay Ranch High School would exceed the City's noise standard of 55 dBA at the proposed project site, and a significant impact would not occur as a result of these activities. To avoid potentially significant noise impacts, mitigation is provided (see Section 6, Mitigation Measures, Mitigation Measure N-9).

5.6 MSCP Preserve

There are no operational noise significance thresholds for the Preserve; however, for purposes of consistency with construction noise requirements, the following analyzes the potential for operational noise levels that would exceed 60 dBA, which is the construction noise threshold for the Preserve during breeding season.

Following construction, the southernmost residences in Village Two would be located adjacent to MSCP Preserve area (OS-2). However, residences are not sources of substantial noise. Occasional maintenance activities would be required along the trail edge of development, such as vegetation and sediment removal; however, these activities would not require heavy construction equipment that would generate excessive noise. Occasional vehicle trips would not result in a substantial increase in noise levels. As described in the Preserve Edge Plan in the SPA Plans, a manual weeding program would be prepared for the Preserve edge. Occasional maintenance of the off-site utilities may require heavy equipment; however, such activities would be infrequent

⁴ The idealized point from which the various noise sources within an area could be said to be emanating from, derived by multiplying the nearest and farthest distances and taking the square root (California Department of Transportation, 2009)

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and temporary. The Chula Vista MSCP Plan states that infrastructure repairs and maintenance are allowable as needed in the MSCP Preserve. Maintenance would be subject to the MSCP requirement that, to the extent practicable, access for non-emergency routine maintenance would be limited during bird breeding seasons (April 1 through June 31) in areas where breeding and/or nesting activity may occur. Therefore, impacts would be less than significant.

5.7 Airport Related Noise Exposure

Development containing noise-sensitive land uses that is proposed in proximity to an airport has the potential to experience nuisance noise from airport operations. Typically, if the development proposal is located within the Airport Influence Area of an adopted Airport Land Use Plan (ALUP) or Airport Land Use Compatibility Plan (ALUCP), or within the vicinity of a private airstrip not subject to an airport land use plan, noise from airport operations is to be assessed for potential impacts upon the development.

Brown Field Airport is located along the north side of Otay Mesa Road, approximately 2.5 miles south of Village Two. The runways are oriented in an east/west direction.

The project site is subject to overflights of planes and helicopters taking off from Brown Field, which are audible on the project site and would be audible in the future. Overflights from Brown Field may be considered a nuisance to residents. In accordance with standard condition #46 in Section 5-300 of the City's Subdivision Manual, applicants are required to record an Airport Overflight Agreement against the property to the satisfaction of the Director of Development Services prior to recordation of any Final Map. This condition would run with the property, and as such, potential nuisance noise from aircraft overflights would be disclosed to future residents.

The San Diego County Airport Land Use Commission adopted an ALUCP for Brown Field in 2010 (County of San Diego 2010). The graphics in the 2010 ALUCP indicate that the project site (i.e., Villages Two) is north and outside of the 60 and 65 dB CNEL noise contours for Brown Field (refer to Appendix D). According to existing data for Brown Field, the project site would not be exposed to noise levels from aircraft operations that exceed 60–65 dB CNEL. In that 65 dB CNEL is an acceptable exterior noise exposure level for all of the land uses proposed within the project, airport noise exposure levels would remain below significant levels. Therefore, impacts would be less than significant and no mitigation is required to address airport noise exposure.

5.8 Impacts from Operation of Off-Site Facilities

As discussed above under Section 3.0, Existing Conditions, the Otay Valley Rock Quarry is located south of Village Two, approximately 0.8 mile from the project site. According to the EIR prepared for the proposed quarry reclamation plan amendment, daytime average noise levels

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along the perimeter of the quarry range from approximately 45 dBA to 55 dBA (City of Chula Vista 2011). Village Two and the quarry are separated by the planned Villages Three and Four. Operation of the quarry is generally not audible on the project site, as demonstrated by the ambient noise measurements taken at the site. Intermittent noise from particularly loud operations, such as blasting, may be occasionally audible on the project site. Due to the temporary and periodic nature of noise from the quarry operations, it would not result in a significant impact to development in Village Two.

5.9 Short-Term Noise Impacts (Construction-Related Noise)

Because the development of the project would be a multi-year endeavor, portions of the development would be completed and occupied during the construction of subsequent portions (phases). Therefore, the occupied project phases have the potential to be impacted by noise from on-going construction activities. Additionally, construction of Village Two, which is adjacent to existing noise-sensitive uses (such as Otay Ranch High School, located to the north of the project), has the potential to result in short-term noise impacts at adjacent noise-sensitive land uses.

Noise from construction activity is generated by the broad array of powered, noise-producing mechanical equipment used in the construction process. This equipment ranges from hand-held pneumatic tools to bulldozers, dump trucks, and front loaders. The exact complement of noise-producing equipment that would be in use during any particular period has not yet been determined. Noisy construction activities could be in progress on more than one part of the project site at a given time. However, the noise levels from construction activity during various phases of a typical construction project have been evaluated, and their use provides an acceptable prediction of a project's potential noise impacts.

In order to assess the potential noise effects of construction, this noise analysis used data from an extensive field study of various types of industrial and commercial construction projects (U.S. Environmental Protection Agency 1971). Noise levels associated with various construction phases where all pertinent equipment is present and operating, at a reference distance of 50 feet, are shown in Table 10. Because of vehicle technology improvements and stricter noise regulations since the field study was published, this analysis uses the average noise levels shown in Table 10 for the loudest construction phase. This information indicates that the overall average noise level generated on a construction site could be 89 dBA at a distance of 50 feet during excavation and finishing phases. The noise levels presented are value ranges; the magnitude of construction noise emission typically varies over time because construction activity is intermittent and the power demands on construction equipment (and the resulting noise output).

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Table 10
Typical Noise Levels from Construction Activities for Large Construction Projects

Construction Activity	Average Sound Level at 50 feet (dBA L _{eq}) ^a	Standard Deviation (dB)
Ground Clearing	84	7
Excavation	89	6
Foundations	78	3
Erection	87	6
Finishing	89	7

Noise levels generated by construction equipment (or by any point source) decrease at a rate of approximately six dBA per doubling of distance from the source (Harris 1979). Therefore, if a particular construction activity generated average noise levels of 89 dBA at 50 feet, the L_{eq} would be 83 dBA at 100 feet, 77 dBA at 200 feet, 71 dBA at 400 feet, and so on. This calculated reduction in noise level is based on the loss of energy resulting from the geometric spreading of the sound wave as it leaves the source and travels outward. Intervening structures that block the line of sight, such as buildings, would further decrease the resultant noise level by a minimum of five dBA. The effects of molecular air absorption and anomalous excess attenuation would reduce the noise level from construction activities at more distant locations at the rates of 0.7 dBA and 1.0 dBA per 1,000 feet, respectively.

5.9.1 Impacts to Noise Sensitive Land Uses

With respect to the potential for construction of the project or phases to have nuisance noise impacts upon completed and occupied components within Village Two, a worst-case scenario would be a completed “block” or “neighborhood” separated only by an internal public roadway from another block that is under construction. The narrowest roadway proposed within Village Two has a right-of-way of 58 feet. Construction noise is attenuated by approximately six dB for every doubling of distance. Thus, assuming no shielding from intervening barriers or buildings, the maximum noise levels would be approximately 88 dBA at the residential property lines situated across a 58-foot roadway right-of-way from active construction. This noise level could intermittently occur for a few days when construction equipment is operating immediately adjacent to the opposite side of the roadway right-of-way from occupied homes. The remainder of the time the construction noise level would be less because the equipment would be operating in a large area farther away from the existing residences. When the construction equipment is operating, the existing residences could be disturbed by the activities.

The generation of noise from construction activities during noise sensitive time periods upon completed and occupied components of the project is considered a significant impact.

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Additionally, construction noise could affect existing off-site noise-sensitive land uses. The nearest off-site noise-sensitive land uses relative to the project site is Otay Ranch High School, located adjacent to the project site boundary. As such, project generated construction noise would pose a potentially significant impact on noise-sensitive receptors if construction hour limitations are not imposed. However, with adherence to a restricted construction schedule dictating project-related site preparation and construction activities limited to the hours between 7:00 am–6:00 pm, Monday–Friday and between the hours of 8:00 am–6:00 pm Saturday, significant construction-related noise impacts could be avoided. To avoid potentially significant construction-related noise impacts, mitigation is provided (see Section 6, Mitigation Measures, N-10).

5.9.2 Impacts to MSCP Preserve Areas

As discussed in Section 1.4.4, the MSCP Subarea Plan regulates impacts to sensitive biological resources, including noise impacts. In general, the construction noise threshold for sensitive biological resources is an hourly average noise level of 60 dBA and no clearing, grubbing, and/or grading is permitted within the MSCP Preserve during the breeding season of the sensitive species present. Mitigation Measure 5.3-8 of the SPA Plan EIR (City of Chula Vista 2006) includes requirements for pre-construction surveys to determine the location of sensitive species and the establishment of noise buffers if species are present.

With implementation of the mitigation measures required in the SPA Plan EIR, the proposed project would not result in significant temporary noise impacts from construction activities. No additional mitigation is required.

5.9.3 Vibration

Project-related construction activities have the potential to create groundborne vibration. Construction activities can result in varying degrees of ground vibration, depending on the equipment and methods employed. Operation of construction equipment causes ground vibrations that spread through the ground and diminish in strength with distance. Buildings founded on the soil in the vicinity of the construction site respond to these vibrations, with varying results ranging from no perceptible effects at the lowest levels, perceptible vibrations at moderate levels, and slight damage at the highest levels (Federal Transit Administration 2006). There are no businesses or institutions with highly sensitive equipment (such as hospitals, laboratories or printing presses) in the vicinity of the project. The nearest such institution would be the Sharp Chula Vista Medical Center, located approximately one mile from the project site. At one mile from the nearest construction activity, the facility would be located outside of the vibration screening distances for major construction activity (200 feet) and pile driving (600 feet). Therefore construction activity would not affect any off-site

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vibration-sensitive land use and impacts related to groundborne vibration during construction at off-site land uses would be less than significant.

The highest vibration levels during construction typically occur during pile-driving, blasting or demolition activities. Neither pile driving, blasting or demolition activities are anticipated as part of this project. Vibrations from smaller, rubber-tired trucks and other equipment would typically not result in perceptible or damage-inducing vibration levels beyond a distance of approximately 45 feet⁵.

It should be noted that ground vibrations from construction activities do not often reach the levels that can damage structures or affect activities that are not vibration-sensitive, although the vibrations may be felt by nearby persons in close proximity and result in annoyance (FTA 2006). Additionally, the Village Two development would consist of new buildings constructed in accordance with all building codes and would not be susceptible to vibration damage. Vibration impacts would be temporary and would cease following construction. Thus, the potential for on-site impacts from vibration is less than significant.

5.10 Cumulative Impacts

Noise effects of the project would, for the most part, be confined to the project area and are evaluated on a project-specific basis. Long-term on-site activities associated with the project would not have a regional effect upon community noise levels, and therefore need not be considered in combination with approved or proposed projects in the region. The one exception is the project's contribution to traffic-related noise levels, which extend beyond the site boundaries, and which must be considered in the context of proposed projects in the region. The project's contribution to cumulatively significant noise impacts is presented in Tables 11 and 12. The methodology again uses noise traffic modeling to compare the resulting noise levels from Year 2025 and Year 2030 traffic volumes alone, versus Year 2025 and Year 2030 Plus Project traffic volumes.

⁵ Assumes vibration levels from a loaded truck (86 VdB at reference distance of 25 feet). Resulting vibration level at a distance of 45 feet would be approximately 78 VdB, which is below the FTA criteria for Type 2 (residential) land uses of 80 VdB for infrequent events.

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Table 11
Project Contribution to Off-Site Traffic Noise – Year 2025
(Off-Site Traffic Noise Level Increase)

Roadway (segment)	Rcvr #	CNEL (dB)		
		Year 2025	Year 2025 + Project	dB Change
Olympic Parkway Brandywine to Santa Victoria	1	53	53	0
	2	53	54	1
Olympic Parkway Santa Victoria to Heritage Road	3	55	55	0
	4	52	53	1
	5	52	52	0
	6	54	54	0
	7	56	57	1
	8	59	59	0
Heritage Road north of Olympic Parkway	9	62	62	0
	10	62	62	0
	11	56	57	1
Olympic Parkway Heritage Road to Santa Venetia Street	12	60	60	0
	13	61	61	0
	14	59	59	0
	15	55	55	0
Olympic Parkway Santa Venetia Street to La Media Road	16	56	56	0
	17	58	59	1
	18	61	61	0
La Media Road north of Olympic Parkway	19	59	59	0
	20	60	60	0
Olympic Parkway east of La Media Road	21	63	63	0
	22	63	63	0
La Media Road Olympic Parkway to Santa Venetia	23	63	63	0
	24	61	61	0
La Media Road Santa Venetia to Birch	25	63	63	0
	26	65	65	0
	27	64	64	0
	28	63	63	0
La Media Road south of Birch	29	64	64	0
	30	63	63	0
	31	61	61	0
	32	59	59	0
	33	54	55	1

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Table 12
Project Contribution to Off-Site Traffic Noise – Year 2030
(Off-Site Traffic Noise Level Increase)

Roadway (segment)	Rcvr #	CNEL (dB)		
		Year 2030	Year 2030 + Project	dB Change
Olympic Parkway Brandywine to Santa Victoria	1	52	52	0
	2	52	53	1
Olympic Parkway Santa Victoria to Heritage Road	3	53	53	0
	4	51	51	0
	5	51	51	0
	6	53	53	0
	7	55	56	1
	8	59	59	0
Heritage Road north of Olympic Parkway	9	62	62	0
	10	62	62	0
	11	56	57	1
Olympic Parkway Heritage Road to Santa Venetia Street	12	59	59	0
	13	60	60	0
	14	58	58	0
	15	54	54	0
Olympic Parkway Santa Venetia Street to La Media Road	16	55	55	0
	17	57	58	1
	18	60	60	0
La Media Road north of Olympic Parkway	19	58	58	0
	20	60	60	0
Olympic Parkway east of La Media Road	21	63	63	0
	22	62	63	1
La Media Road Olympic Parkway to Santa Venetia	23	62	62	0
	24	60	60	0
La Media Road Santa Venetia to Birch	25	62	62	0
	26	64	64	0
	27	63	64	1
	28	62	63	1
La Media Road south of Birch	29	62	62	0
	30	61	61	0
	31	59	59	0
	32	57	57	0
	33	53	53	0

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As seen in Tables 11 and 12, the project's contribution to cumulative noise levels would be limited, a one dB increase at most, which by itself is not a discernible increase. Additionally as shown in Tables 11 and 12, the proposed project would not contribute any increase in noise levels at those locations equal to or exceeding the City's 65 dB CNEL noise standard for residential land uses under "Without Project" conditions. Therefore, the project's contribution to increased noise levels would not be cumulatively considerable and cumulative impacts would be less than significant. Consequently, mitigation is not required for the project's contribution to off-site noise impacts associated with General Plan build out traffic volumes.

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6.0 MITIGATION MEASURES

The following mitigation measures are recommended to address the identified potentially significant noise impacts.

MM N-1 Prior to the approval of grading permits for residential development adjacent to Olympic Parkway at Neighborhood R-12A, the project applicant or its designee shall be responsible for the preparation of a subsequent acoustical study based on the final map design and implementation of any measures recommended as a result of the analysis to the satisfaction of the Development Services Director (or their designee). The study shall include, but not be limited to the following:

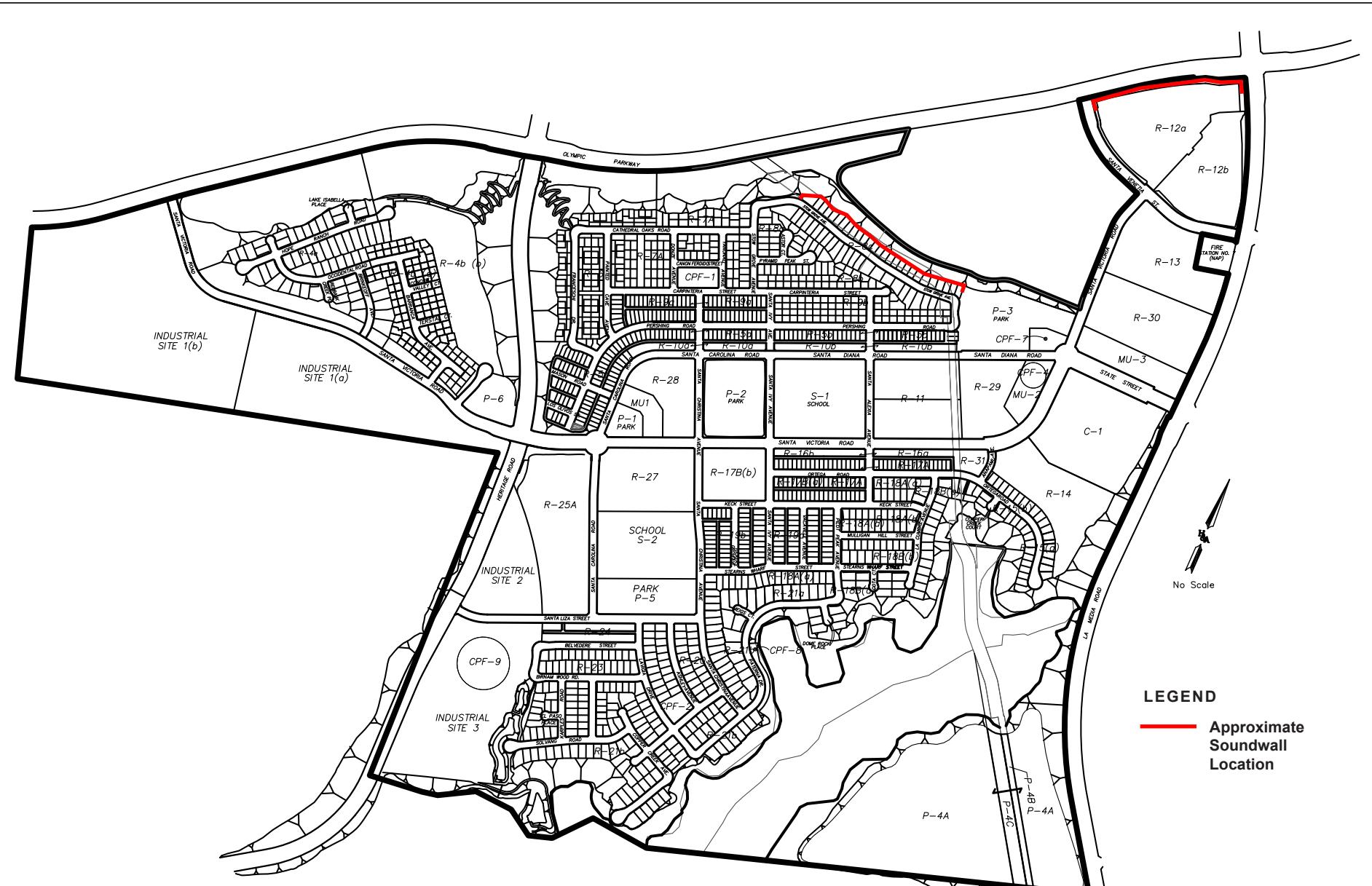
1. Location, height, and building material of the noise barriers in accordance with Figure 11 (Approximate Sound Wall Locations), contained in the Noise Assessment Technical Report for the Otay Ranch Village Two Project (Dudek November 2013). The sound wall noise barriers shall be a minimum of six feet in height, must have a surface density of at least four pounds per square foot, and be free of openings and cracks. The wall may be constructed of acrylic glass, masonry material, earthen berm, or a combination of these materials. Heights are provided relative to final pad elevation. Required heights may be achieved through construction of walls, berms or a wall/berm combination;
2. A detailed analysis that demonstrates that barriers and/or setbacks have been incorporated into the project design, such that noise exposure to residential receivers placed in all useable outdoor areas, including multi-family residential patios and balconies, are at or below 65 dBA CNEL; and
3. Should pad grade elevations, lot configuration/site design, and/or traffic assumptions change during the processing of any final maps, the barriers shall be refined to reflect those modifications.

MM N-2 Site-Specific Acoustic Analysis – Single-Family Residences. Concurrent with design review and prior to the approval of building permits for single-family residential development where the exterior noise level exceeds 60 dBA CNEL, the applicant shall prepare an acoustical analysis ensuring that interior noise levels due to exterior noise sources will be at or below 45 dBA CNEL. Design-level architectural plans shall be used to the exterior-to-interior transmissions loss for habitable rooms. Contingent upon the results of the interior acoustical analysis, units may need to include an air conditioning system to provide a

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habitable interior environment with the windows closed while meeting the interior standard of 45 dBA CNEL. The acoustical analysis shall be prepared to the satisfaction of the Director of Development Services (or their designee), and all required noise control measures identified in the acoustical analysis shall be made conditions of building permit issuance.

- MM N-3** Site-Specific Acoustic Analysis – Multi-Family Residences. Concurrent with design review and prior to the approval of building permits for multi-family areas where first and/or second floor exterior noise levels exceed 60 dBA CNEL and/or where required outdoor area (patios or balconies) noise levels exceed 65 dBA CNEL, the applicant shall prepare an acoustical analysis demonstrating compliance with California's Title 24 Interior Noise Standards (i.e., 45 dBA CNEL) and the City's Exterior Land Use/Noise Compatibility Guidelines for outdoor use areas (i.e., 65 dBA CNEL). Design-level architectural plans will be available during design review and will permit the accurate calculation of transmissions loss for habitable rooms. For these areas, it may be necessary for the windows to be able to remain closed to ensure that interior noise levels meet the interior standard of 45 dBA CNEL. Consequently, the design for buildings in these areas may need to include a ventilation or air conditioning system to provide a habitable interior environment with the windows closed based on the result on the interior acoustical analysis.
- MM N-4** As part of the site plan/development plan review process conducted in connection with future commercial, mixed residential, and commercial land use development applications submitted to the City, the applicant or its designee shall prepare site-specific acoustical analyses to the satisfaction of the Director of Development Services (or their designee) to ensure noise levels generated by the proposed use will comply with the City's General Plan noise standards (maximum exterior noise levels of 65 CNEL). The applicant for each development proposal shall be responsible to fund the required acoustical analysis, which shall be prepared to the satisfaction of the Director of Development Services (or its designee). All required noise control measures identified in the acoustical analysis shall be made conditions of development approval.



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SPA SOURCE: HUNSAKER 2013

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FIGURE 11
Approximate Soundwall Locations

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- MM N-5** As part of the site plan/development plan review process conducted in connection with future industrial development applications submitted to the City, the applicant or its designee shall prepare a site-specific acoustical analysis to ensure noise levels generated by the proposed use will comply with the City's General Plan noise standards for residential property boundaries proximate to the industrial zone (maximum exterior noise levels of 65 CNEL). The applicant for each development proposal shall be responsible to fund the required acoustical analysis, which shall be prepared to the satisfaction of the Director of Development Services (or their designee). All required noise control measures identified in the acoustical analysis shall be made conditions of development approval.
- MM N-6** As a condition of approval of the proposed project, any active uses within park sites P-1, P-3, and P-6B shall be located a minimum of 50 feet from the closest residential property line. Alternatively, noise barriers such as sound walls up to six feet in height shall be constructed along the lots within 50 feet of park sites P-1, P-3, and P-6B.
- MM N-7** As a condition of approval of the proposed project, operating hours for park sites shall be limited to 7:00 am–10:00 pm, 7 days a week.
- MM N-8** Concurrent with design review and prior to the approval of building permits for the elementary schools (S-1 and S-2), the applicant shall be responsible for the preparation of an acoustical analysis ensuring that noise levels at exterior use areas (i.e., playground, sports fields, athletic courts, etc.) will be below 65 dBA CNEL and implementation of any measures recommended as a result of the analysis. Measures to reduce noise levels may include, but would not be limited to, setback of structures from the roadway, installing acoustic barriers, or orienting outdoor activity areas away from roadways so that surrounding structures provide noise attenuation. The acoustical analysis shall also address control measures for outdoor school activity noise and its effect upon immediately adjacent land uses, to ensure school activity related noise levels do not exceed 65 dB CNEL at exterior use areas of adjacent residential properties. The analysis shall also demonstrate that barriers or setbacks have been incorporated into the project design, such that, when considered with proposed construction specifications, ground level and upper story interior noise levels shall not exceed 45 dBA CNEL. Roof-ceiling assemblies making up the building envelope shall have a sound transmission class value of at least 50, and exterior windows shall have a minimum sound transmission class of 30 in

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compliance with the California Green Building standards code. The acoustical analysis shall be prepared to the satisfaction of the school district, and all required noise control measures identified in the acoustical analysis shall be made conditions of development approval.

- MM N-9** Prior to the approval of grading permits for residential development adjacent to Otay Ranch High School at Neighborhood R-8C, the project applicant or its designee shall be responsible for the preparation of a subsequent acoustical study based on the final map design and implementation of any measures recommended as a result of the analysis to the satisfaction of the Development Services Director (or their designee). The study shall include, but not be limited to the following:
1. Location, height, and building material of a noise barrier in accordance with Figure 11 (Approximate Sound Wall Locations, Neighborhood R-8C), contained in the Noise Assessment Technical Report for the Otay Ranch Village Two Project (Dudek October 2013). The sound wall noise barriers shall be a minimum of six feet in height, must have a surface density of at least four pounds per square foot, and be free of openings and cracks. The wall may be constructed of acrylic glass, masonry material, earthen berm, or a combination of these materials. Heights are provided relative to final pad elevation. Required heights may be achieved through construction of walls, berms or a wall/berm combination;
 2. A detailed analysis that demonstrates that barriers and/or setbacks have been incorporated into the project design, such that noise exposure to residential receivers placed in all useable outdoor areas, including multi-family residential patios and balconies, are at or below 65 dBA CNEL; and
 3. Should pad grade elevations, lot configuration/site design, and/or traffic assumptions change during the processing of any final maps, the barriers shall be refined to reflect those modifications.
- MM N-10** All project-related site preparation and construction activities shall be limited to the hours between 7:00 am–6:00 pm, Monday –Friday, and between 8:00 am–6:00 pm Saturday. No construction activities shall occur on Federal holidays (e.g., Thanksgiving, July 4th, Labor Day, etc.). All maintenance of construction equipment shall be limited to the same hours. This language shall be added to the Project grading plans. Non-noise-generating construction activities such as interior painting are not subject to these restrictions.

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APPENDIX A

Definitions of Noise Terms

APPENDIX A

Definitions of Noise Terms

Term	Definition
Ambient Noise Level	The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.
A-Weighted Sound Level, dBA	The sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise.
Community Noise Equivalent Level, CNEL	CNEL is the average equivalent A-weighted sound level during a 24-hour day. CNEL accounts for the increased noise sensitivity during the nighttime (10 PM–7AM) and evening (7–10 PM) by adding ten dB to the sound levels at night and five dB to the sound levels during the evening.
Decibel, dB	A unit for measuring sound pressure level and is equal to 10 times the logarithm to the base 10 of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micropascals.
Maximum A-weighted Sound Level, Lmax	The greatest sound level measured on a sound level meter during a designated time interval or event.
Time-Average Sound Level, TAV	The sound level corresponding to a steady state sound level containing the same total energy as a time varying signal over a given sample period. TAV is designed to average all of the loud and quiet sound levels occurring over a time period.

APPENDIX A (Continued)

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APPENDIX B

Pertinent Traffic Data

TABLE B-1
ROADWAY SEGMENT LEVEL OF SERVICE RESULTS
EXISTING CONDITIONS

(City of Chula Vista)															DIFFERENCE IN VOLUMES: WITH PROJECT VS WITHOUT PROJECT								
															EXISTING PLUS PROJECT	YEAR 2015 WITH PROJECT	YEAR 2020 WITH PROJECT	YEAR 2025 WITH PROJECT	YEAR 2030 WITH PROJECT				
Roadway	From	To	Average Daily Traffic (ADT)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)	ADT w/ Project	Project ADT (> 800)				
Telegraph Canyon Road	Medical Center Drive	Heritage Road/Paseo Ranchero	45,077	46,100	1,068	55,600	452	55,700	393	55,900	534	55,200	534	2.4%	0.8%	0.7%	1.0%	1.0%	0.1	0.0	0.0	0.0	0.0
Telegraph Canyon Road	Heritage Road/Paseo Ranchero	La Media Road/Olaiy Lakes Road	36,074	36,300	178	47,800	75	49,400	131	52,500	178	48,300	178	0.5%	0.2%	0.3%	0.3%	0.4%	0.0	0.0	0.0	0.0	0.0
Otay Lakes Road	H Street	Telegraph Canyon Road	26,321	27,000	712	28,800	301	30,500	524	32,600	534	30,500	356	2.7%	1.1%	1.7%	1.7%	1.2%	0.1	0.0	0.1	0.1	0.1
Otay Lakes Road	La Media Road	Rutgers Avenue	41,612	42,700	1,068	40,900	452	42,500	786	44,700	890	43,900	890	2.6%	1.1%	1.9%	2.0%	2.1%	0.1	0.0	0.1	0.1	0.1
East Palomar Street	Medical Center Drive	Heritage Road	13,420	15,000	1,602	20,200	678	22,900	786	25,600	1,068	22,900	890	12.0%	3.5%	3.6%	4.4%	4.0%	0.5	0.1	0.2	0.2	0.2
East Palomar Street	Heritage Road	La Media Road	20,122	20,700	534	22,800	226	23,100	393	23,600	356	14,600	534	2.6%	1.0%	1.7%	1.5%	3.8%	0.1	0.0	0.1	0.1	0.2
East Palomar Street	La Media Road	Olympic Parkway	12,371	12,500	178	19,300	75	20,600	131	22,300	178	20,300	356	1.4%	0.4%	0.6%	0.8%	1.8%	0.1	0.0	0.0	0.0	0.1
Orange Avenue	Hilltop Drive	Melrose Avenue	23,117	23,500	356	26,400	151	27,100	262	27,900	356	28,600	356	1.5%	0.6%	1.0%	1.3%	1.3%	0.1	0.0	0.0	0.1	0.1
Orange Avenue	Melrose Avenue	I-805 SB Ramps	29,025	29,400	356	31,800	151	31,800	262	32,500	356	34,300	534	1.2%	0.5%	0.8%	1.1%	1.6%	0.1	0.0	0.0	0.0	0.1
Olympic Parkway	I-805 SB Ramps	I-805 NB Ramps	39,453	43,700	4,272	40,200	452	41,000	786	43,100	1,246	42,100	1,602	10.8%	1.1%	2.0%	3.0%	4.0%	0.4	0.0	0.1	0.1	0.2
Olympic Parkway	I-805 NB Ramps	Oleander Avenue	48,508	53,700	5,162	41,900	828	42,700	1,703	47,200	2,136	42,900	2,492	10.6%	2.0%	4.2%	4.7%	6.2%	0.4	0.1	0.2	0.2	0.3
Olympic Parkway	Oleander Avenue	Brandywine Avenue	52,262	57,600	5,340	34,300	904	35,900	1,834	40,900	2,314	34,800	2,670	10.2%	2.7%	5.4%	6.0%	8.3%	0.4	0.1	0.2	0.3	0.3
Olympic Parkway	Brandywine Avenue	Santa Victoria Road	52,690	58,200	5,518	24,300	979	24,500	2,228	32,600	3,026	26,600	3,204	10.5%	4.2%	10.0%	10.2%	13.7%	0.4	0.2	0.4	0.4	0.6
Olympic Parkway	Santa Victoria Road	Heritage Road	52,690	58,200	5,518	23,200	979	19,000	262	22,400	712	16,200	712	10.5%	4.4%	1.4%	3.3%	4.6%	0.4	0.2	0.1	0.1	0.2
Olympic Parkway	Heritage Road	Santa Venetia Street	48,232	48,400	178	41,200	75	46,300	131	52,000	178	39,300	178	0.4%	0.2%	0.3%	0.3%	0.5%	0.0	0.0	0.0	0.0	0.0
Olympic Parkway	Santa Venetia Street	La Media Road	45,805	46,000	178	33,600	75	37,900	131	41,900	178	32,100	178	0.4%	0.2%	0.3%	0.4%	0.6%	0.0	0.0	0.0	0.0	0.0
Olympic Parkway	La Media Road	East Palomar Street	31,038	31,800	712	25,800	301	27,700	524	32,100	712	26,800	712	2.3%	1.2%	1.9%	2.3%	2.7%	0.1	0.1	0.1	0.1	0.1
Olympic Parkway	East Palomar Street	SR-125 SB Ramps	35,555	36,100	534	45,000	226	48,400	262	52,800	534	47,000	534	1.5%	0.5%	0.5%	1.0%	1.1%	0.1	0.0	0.0	0.0	0.0
Olympic Parkway	SR-125 SB Ramps	SR-125 NB Ramps	33,827	34,200	356	46,200	151	50,600	262	55,100	356	49,100	356	1.1%	0.3%	0.5%	0.7%	0.7%	0.0	0.0	0.0	0.0	0.0
Olympic Parkway	SR-125 NB Ramps	Eastlake Parkway	35,608	36,000	356	48,000	151	53,200	262	58,300	356	51,800	178	1.0%	0.3%	0.5%	0.6%	0.3%	0.0	0.0	0.0	0.0	0.0
Birch Road	La Media Road	Magdalena Avenue	9,160	12,700	3,560	27,600	1,506	44,100	3,014	33,800	3,382	31,700	4,450	38.9%	5.8%	7.3%	11.1%	16.3%	1.4	0.2	0.3	0.5	0.7

Birch Road	Magdalena Avenue	SR-125 SB Ramps	10,740	13,600	2,848	23,000	1,205	28,500	2,096	40,400	3,026	32,100	3,738	26.5%	5.5%	7.9%	8.1%	13.2%	1.0	0.2	0.3	0.3	0.5		
Birch Road	SR-125 SB Ramps	SR-125 NB Ramps	11,997	14,700	2,670	24,200	1,130	30,000	1,965	43,300	2,670	32,100	3,204	22.2%	4.9%	7.0%	6.6%	11.1%	0.9	0.2	0.3	0.3	0.5		
Birch Road	SR-125 NB Ramps	Eastlake Parkway	10,734	13,000	2,314	26,000	979	32,300	1,834	45,200	2,492	32,400	3,204	21.7%	3.9%	6.0%	5.8%	11.0%	0.9	0.2	0.3	0.2	0.5		
Main Street	Brandywine Avenue	Heritage Road	10,865	11,400	534	30,100	828	34,600	1,441	40,600	1,602	60,300	712	4.9%	2.8%	4.3%	4.1%	1.2%	0.2	0.1	0.2	0.2	0.1		
Main Street	Heritage Road	La Media Road																					0.0		
Main Street	La Media Road	SR-125 SB Ramps																					0.2	0.0	
Main Street	SR-125 SB Ramps	SR-125 NB Ramps																						0.0	
Main Street	SR-125 NB Ramps	Eastlake Parkway/University Drive																						0.0	
Otay Valley Road	Main Street	SR-125 SB Ramps																						0.1	
Paseo Ranchero	H Street	Telegraph Canyon Road	13,257	14,700	1,424	15,900	602	16,200	917	19,700	1,246	22,500	1,068	10.7%	3.9%	6.0%	6.8%	5.0%	0.4	0.2	0.3	0.3	0.2		
Heritage Road	Telegraph Canyon Road	East Palomar Street	19,010	21,700	2,670	20,800	1,130	23,900	1,441	26,200	1,958	27,600	1,780	14.0%	5.7%	6.4%	8.1%	6.9%	0.6	0.2	0.3	0.3	0.3		
Heritage Road	East Palomar Street	Olympic Parkway	12,877	17,700	4,806	37,800	2,033	45,100	2,621	51,400	3,560	53,800	3,204	37.3%	5.7%	6.2%	7.4%	6.3%	1.4	0.2	0.3	0.3	0.3		
Heritage Road	Olympic Parkway	Santa Victoria Road		6,400	6,300	17,800	2,711	27,500	2,490	32,600	3,026	38,900	2,670	18.0%	10.0%	10.2%	7.4%		0.7	0.4	0.4	0.3			
Heritage Road	Santa Victoria Road	Santa Liza Avenue		1,800	1,780	24,200	1,355	38,100	2,621	40,900	3,204	41,500	3,204		5.9%	7.4%	8.5%	8.4%		0.3	0.3	0.4	0.3		
Heritage Road	Santa Liza Avenue	Main Street				28,100	1,205	43,900	2,359	47,700	2,848	53,800	2,670		4.5%	5.7%	6.3%	5.2%		0.2	0.2	0.3	0.2		
Heritage Road	Main Street	Avenida De Las Vistas	8,787	9,300	534	22,600	377	28,800	786	32,300	1,068	65,700	1,958		6.1%	1.7%	2.8%	3.4%	3.1%	0.3	0.1	0.1	0.1		
La Media Road	Telegraph Canyon Road	East Palomar Street	22,569	24,300	1,780	22,000	753	26,800	1,179	33,200	1,424	31,400	1,246		7.9%	3.5%	4.6%	4.5%	4.1%	0.3	0.2	0.2	0.2	0.2	
La Media Road	East Palomar Street	Olympic Parkway	14,666	16,600	1,958	16,300	828	20,000	1,310	26,200	1,602	26,800	1,424		13.4%	5.4%	7.0%	6.5%	5.6%	0.5	0.2	0.3	0.3	0.2	
La Media Road	Olympic Parkway	Santa Venetia Street	16,408	18,900	2,492	26,200	1,054	32,400	1,834	41,800	2,314	33,100	2,136		15.2%	4.2%	6.0%	5.9%	6.9%	0.6	0.2	0.3	0.2	0.3	
La Media Road	Santa Venetia Street	Birch Road	11,515	14,900	3,382	25,600	1,431	29,800	1,965	39,400	1,780	33,300	2,314		29.4%	5.9%	7.1%	4.7%	7.5%	1.1	0.2	0.3	0.2	0.3	
La Media Road	Birch Road	Santa Luna Street	2,072	2,600	534	12,700	226	7,800	131	29,000	1,246	18,600	890		25.8%	1.8%	1.7%	4.5%	5.0%	1.0	0.1	0.1	0.2	0.2	
La Media Road	Santa Luna Street	Main Street								25,500	1,068	18,500	712										0.2	0.2	
Magdalena Avenue	Birch Road	Wolf Canyon Loop	8,283	9,000	712	12,900	301	29,000	917	19,200	356	12,800	712		8.7%	2.4%	3.3%	1.9%	5.9%	0.4	0.1	0.1	0.1	0.2	
Magdalena Avenue	Wolf Canyon Loop	Santa Luna Street	33,001	3,700	356	6,800	151	21,700	524	10,300	178	4,900	178			2.3%	2.5%	1.8%	3.8%		-9.5	0.1	0.1	0.1	0.2
Magdalena Avenue	Santa Luna Street	Main Street	33,001	3,500	178	11,600	151	33,500	262	21,100	178	12,100	178			1.3%	0.8%	0.9%	1.5%		-9.7	0.1	0.0	0.0	0.1
Eastlake Parkway	Corte Vista	Olympic Parkway	120,922																						
Eastlake Parkway	Olympic Parkway	Birch Road	11,843	12,200	356	21,000	151	25,100	262	32,400	356	28,800	534			3.0%	0.7%	1.1%	1.1%	1.9%	0.1	0.0	0.0	0.0	0.1
Eastlake Parkway	Birch Road	Main Street/Hunte Parkway	1,890	2,200	356	24,700	151	16,600	131	29,500	356	22,900	178			16.4%	0.6%	0.8%	1.2%	0.8%	0.7	0.0	0.0	0.1	0.0

TABLE B-2
 ROADWAY SEGMENT LEVEL OF SERVICE
 EXISTING CONDITIONS
 (City of San Diego)

Roadway	From	To	Average Daily Traffic (ADT)	ADT w/ Project	ADT w/o Project		
Otay Mesa Road	Ocean View Hills Parkway	Heritage Road	35,212	35,390		48,700	47,900
Otay Mesa Road	Heritage Road	Cactus Road	31,682	31,860		45,800	42,800
Otay Mesa Road	Cactus Road	Britannia Boulevard	50,978	51,156		48,800	47,000
Heritage Road	Avenida De Las Vistas	Otay Mesa Road	7,984	8,340		54,200	49,100
					0.5%		0.0
					0.6%		0.0
					0.3%		0.0
					4.5%		0.2
							0.1
							0.3
							0.2
							0.4

Source: Chen Ryan Associates; July 2013

TABLE B-3
FREEWAY/STATE HIGHWAY SEGMENT LEVEL OF SERVICE RESULTS

Freeway / State Highway	Segment	EXISTING CONDITIONS				EXISTING PLUS PROJECT (BUILDOUT) CONDITIONS		YEAR 2015 CONDITIONS		YEAR 2020 and Yr 2025 CONDITIONS			YEAR 2030 CONDITIONS			EXISTING PLUS PROJECT	YEAR 2015 WITH PROJECT	YEAR 2020 and 2025 WITH PROJECT	YEAR 2030 WITH PROJECT	DIFFERENCE IN VOLUMES: WITH PROJECT VS WITHOUT PROJECT			CORRESPONDING ESTIMATED INCREASE IN NOISE LEVEL (DECIBELS)			
		ADT	Peak Hour %	Peak Hour Volume	Directional Split	% of Heavy Vehicle	ADT	Peak Hour Volume	Without Project		Without Project		Without Project													
									ADT	Peak Hour Volume	ADT	ADT	Peak Hour Volume	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	ADT	
I-805	Home Street to SR-94	167,100	6.90%	11,530	0.51	4.20%	168,346	11,616	262,600	18,119	261,600	278,600	19,223	277,500	296,800	295,700	0.7%	0.4%	0.4%	0.4%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	SR-94 to Market Street	162,200	8.00%	12,976	0.5	4.20%	163,624	13,090	259,400	20,752	258,200	273,900	21,912	272,700	286,400	285,300	0.9%	0.5%	0.4%	0.4%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	Market Street to Imperial Avenue	162,200	8.00%	12,976	0.5	4.20%	163,980	13,118	330,300	26,424	329,000	347,400	27,792	346,000	353,400	352,200	1.1%	0.4%	0.4%	0.3%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	Imperial Avenue to E Division Street	181,300	8.00%	14,504	0.5	4.20%	183,258	14,661	328,900	26,312	327,300	345,700	27,656	344,300	351,500	350,300	1.1%	0.5%	0.4%	0.3%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	E Division Street to Plaza Boulevard	188,800	7.20%	13,594	0.51	3.80%	190,936	13,747	312,100	22,471	310,500	329,900	23,753	328,500	338,700	337,300	1.1%	0.5%	0.4%	0.4%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	Plaza Boulevard to SR-54	191,500	8.10%	15,512	0.52	2.20%	193,636	15,685	301,300	24,405	299,700	319,500	25,880	317,400	329,800	328,400	1.1%	0.5%	0.7%	0.4%	0.0	0.0	0.0	0.0	0.0	0.0
I-805	SR-54 to Bonita Road	181,300	7.20%	13,054	0.52	1.70%	184,326	13,271	325,700	23,450	323,700	295,300	21,262	292,800	372,200	370,100	1.7%	0.6%	0.9%	0.6%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	Bonita Road to East H Street	181,300	7.80%	14,141	0.5	1.70%	184,326	14,377	280,400	21,871	278,200	345,200	26,926	342,700	329,100	327,000	1.7%	0.8%	0.7%	0.6%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	East H Street to Telegraph Canyon Road	174,100	7.80%	13,580	0.5	1.90%	177,126	13,816	277,400	21,637	275,200	280,000	21,840	277,500	327,500	325,200	1.7%	0.8%	0.9%	0.7%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	Telegraph Canyon Road to East Palomar Street	153,200	7.10%	10,877	0.51	1.70%	155,692	11,054	231,600	16,444	229,400	249,300	17,700	247,000	286,300	284,000	1.6%	1.0%	0.9%	0.8%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	East Palomar Street to Olympic Parkway	153,200	7.10%	10,877	0.51	1.70%	155,692	11,054	208,100	14,775	206,800	223,700	15,883	222,100	271,500	269,900	1.6%	0.6%	0.7%	0.6%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	Olympic Parkway to Main Street	121,500	6.90%	8,384	0.51	5.40%	124,704	8,605	200,700	13,848	200,600	218,300	15,063	218,100	266,400	265,900	2.6%	0.0%	0.1%	0.2%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	Main Street to Palm Avenue	116,300	7.10%	8,257	0.58	10.30%	118,258	8,396	201,700	14,321	200,900	216,900	15,400	215,800	258,700	258,000	1.7%	0.4%	0.5%	0.3%	0.1	0.0	0.0	0.0	0.0	0.0
I-805	Palm Avenue to SR-905	111,200	7.10%	7,895	0.58	10.30%	113,158	8,034	178,700	12,688	178,000	193,800	13,760	193,100	237,600	236,900	1.8%	0.4%	0.4%	0.3%	0.1	0.0	0.0	0.0	0.0	0.0
SR-125	Telegraph Canyon Road to Olympic Parkway	6,200	7.00%	434	0.58	10.30%	6,378	446	18,400	1,288	18,400	22,700	1,589	22,300	38,900	38,500	2.9%	0.0%	1.8%	1.0%	0.1	0.0	0.1	0.0	0.0	0.0
	Olympic Parkway to Birch Road	4,300	7.00%	301	0.58	10.30%	4,300	301	14,800	1,036	14,800	18,600	1,302	18,600	33,900	33,700	0.0%	0.0%	0.0%	0.6%	0.0	0.0	0.0	0.0	0.0	0.0

SR-125	Birch Road to Main Street	4,800	7.00%	336	0.58	10.30%	5,156	361	25,400	1,778	25,000	33,400	2,338	33,000	38,700	37,800	7.4%	1.6%	1.2%	2.4%	0.3	0.1	0.1	0.0
SR-125	Main Street to Otay Valley Road	4,800	7.00%	336	0.58	10.30%	5,156	361	25,400	1,778	25,000	33,400	2,338	33,000	51,700	50,800	7.4%	1.6%	1.2%	1.8%	0.3	0.1	0.1	0.0
SR-125	Otay Valley Road to Lone Star Road	4,800	7.00%	336	0.58	10.30%	5,156	361	25,400	1,778	25,000	33,400	2,338	33,000	90,700	89,800	7.4%	1.6%	1.2%	1.0%	0.3	0.1	0.1	0.0
SR-125	Lone Star Road to Otay Mesa Road	4,800	7.00%	336	0.58	10.30%	5,156	361	25,400	1,778	25,000	33,400	2,338	33,000	80,200	79,300	7.4%	1.6%	1.2%	1.1%	0.3	0.1	0.1	0.0
SR-125	Otay Mesa Road to SR-905	4,800	7.00%	336	0.58	10.30%	4,978	348	8,500	595	8,400	10,800	756	10,400	33,500	32,600	3.7%	1.2%	3.8%	2.8%	0.2	0.1	0.2	0.0

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

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Source Types CadnaA	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buse	4.0
Percentage Motorcycles	1.0
Percentage of heavy ve	-
- percentage Heavy Truc	50.0
- percentage Buses:	0.0

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Difference in Volumes: With Project Versus Without Project

EXISTING PROJECT	EXISTING PLUS PROJECT	YEAR 2015	YEAR 2015	YEAR 2020	YEAR 2020	YEAR 2025	YEAR 2025	YEAR 2030	YEAR 2030	Auto Volumes	Medium Truck Volumes	Heavy Truck Volumes	Motorcycle Volumes
		WITHOUT PROJECT	WITH PROJECT	WITHOUT PROJECT	WITH PROJECT	WITHOUT PROJECT	WITH PROJECT	WITHOUT PROJECT	WITH PROJECT				
52,690	58,200	23,321	24,300	22,272	24,500	29,574	32,600	23,396	26,600	95.00%	2.00%	2.00%	1.00%
52,690	58,200	22,221	23,200	18,738	19,000	21,688	22,400	15,488	16,200	95.00%	2.00%	2.00%	1.00%
48,232	48,400	41,125	41,200	46,169	46,300	51,822	52,000	39,122	39,300	95.00%	2.00%	2.00%	1.00%
45,805	46,000	33,525	33,600	37,769	37,900	41,722	41,900	31,922	32,100	95.00%	2.00%	2.00%	1.00%
31,038	31,800	25,499	25,800	27,176	27,700	31,388	32,100	26,088	26,800	95.00%	2.00%	2.00%	1.00%
12,877	17,700	35,767	37,800	42,479	45,100	47,840	51,400	50,596	53,800	95.00%	2.00%	2.00%	1.00%
		15,089	17,800	25,010	27,500	29,574	32,600	36,230	38,900	95.00%	2.00%	2.00%	1.00%
		22,845	24,200	35,479	38,100	37,696	40,900	38,296	41,500	95.00%	2.00%	2.00%	1.00%
		26,895	28,100	41,541	43,900	44,852	47,700	51,130	53,800	95.00%	2.00%	2.00%	1.00%
14666	16600	15,472	16,300	18,690	20,000	24,598	26,200	25,376	26,800	95.00%	2.00%	2.00%	1.00%
16408	18,900	25,146	26,200	30,566	32,400	39,486	41,800	30,964	33,100	95.00%	2.00%	2.00%	1.00%
11515	14900	24,169	25,600	27,835	29,800	37,620	39,400	30,986	33,300	95.00%	2.00%	2.00%	1.00%
2072	2600	12,474	12,700	7,669	7,800	27,754	29,000	17,710	18,600	95.00%	2.00%	2.00%	1.00%

20-minute count

Normalized to 1-Hour & Combined Directionally

Calibration Runs		A	MT	HT	MC	MPH	A	MT	HT	MC				
Olympic Parkway	Eastbound		503	0	18	6	50		2808	0	93	30	2931	0.958035
Olympic Parkway	Westbound		433	0	13	4	50						0	0.0317298
La Media Road	Northbound		106	0	0	0	45		639	0	0	0	639	1
La Media Road	Southbound		107	0	0	0	45						0	0
Heritage Road	Northbound		118	0	0	1	40		687	0	6	3	696	0.987069
Heritage Road	Southbound		111	0	2	0	40						0	0.0086207

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

10 Percent Assumed for Peak-Hour to CNEL

EXISTING

EXISTING PLUS PROJECT

YEAR 2025 WITHOUT PROJECT

YEAR 2025 WITH PROJECT

	FROM	TO	Auto	Medium Trucks	Heavy Truck	Motorcycles	Auto	Medium Trucks	Heavy Truck	Motorcycles	Auto	Medium Trucks	Heavy Truck	Motorcycles	Auto	Medium Trucks	Heavy Truck	Motorcycles
1	Olympic Parkway	Brandywine Avenue	5006	105	105	53	5529	116	116	58	2810	59	59	30	3097	65	65	33
2	Olympic Parkway	Santa Victoria Road	5006	105	105	53	5529	116	116	58	2060	43	43	22	2128	45	45	22
3	Olympic Parkway	Heritage Road	4582	96	96	48	4598	97	97	48	4923	104	104	52	4940	104	104	52
4	Olympic Parkway	Santa Venetia Street	4351	92	92	46	4370	92	92	46	3964	83	83	42	3981	84	84	42
5	Olympic Parkway	La Media Road	2949	62	62	31	3021	64	64	32	2982	63	63	31	3050	64	64	32
6	Heritage Road	East Palomar Street	1223	26	26	13	1682	35	35	18	4545	96	96	48	4883	103	103	51
7	Heritage Road	Olympic Parkway	0	0	0	0	0	0	0	0	2810	59	59	30	3097	65	65	33
8	Heritage Road	Santa Victoria Road	0	0	0	0	0	0	0	0	3581	75	75	38	3886	82	82	41
9	Heritage Road	Santa Liza Avenue	0	0	0	0	0	0	0	0	4261	90	90	45	4532	95	95	48
10	La Media Road	East Palomar Street	1393	29	29	15	1577	33	33	17	2337	49	49	25	2489	52	52	26
11	La Media Road	Olympic Parkway	1559	33	33	16	1796	38	38	19	3751	79	79	39	3971	84	84	42
12	La Media Road	Santa Venetia Street	1094	23	23	12	1416	30	30	15	3574	75	75	38	3743	79	79	39
13	La Media Road	Birch Road	197	4	4	2	247	5	5	3	2637	56	56	28	2755	58	58	29

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUMES

YEAR 2030 WITHOUT PROJECT YEAR 2030 WITH PROJECT

	Auto	Medium Trucks	Heavy Truck	Motorcycles	Auto	Medium Trucks	Heavy Truck	Motorcycles
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	FROM	TO	2030 W/O Project	2030 W/ Project	2030 W/O Project	2030 W/ Project	2030 W/O Project	2030 W/ Project
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	2223	47	47	23	2527	53
2 Olympic Parkway	Santa Victoria Road	Heritage Road	1471	31	31	15	1539	32
3 Olympic Parkway	Heritage Road	Santa Venetia Street	3717	78	78	39	3734	79
4 Olympic Parkway	Santa Venetia Street	La Media Road	3033	64	64	32	3050	64
5 Olympic Parkway	La Media Road	East Palomar Street	2478	52	52	26	2546	54
6 Heritage Road	East Palomar Street	Olympic Parkway	4807	101	101	51	5111	108
7 Heritage Road	Olympic Parkway	Santa Victoria Road	3442	72	72	36	3696	78
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	3638	77	77	38	3943	83
9 Heritage Road	Santa Liza Avenue	Main Street	4857	102	102	51	5111	108
10 La Media Road	East Palomar Street	Olympic Parkway	2411	51	51	25	2546	54
11 La Media Road	Olympic Parkway	Santa Venetia Street	2942	62	62	31	3145	66
12 La Media Road	Santa Venetia Street	Birch Road	2944	62	62	31	3164	67
13 La Media Road	Birch Road	Santa Luna Street	1682	35	35	18	1767	37

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Calibration Runs

Olympic Parkway
La Media Road
Heritage Road

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr	5006	105	105	0	53
Veh/hr	5006	105	105	0	53
Veh/hr	4582	96	96	0	48
Veh/hr	4351	92	92	0	46
Veh/hr	2949	62	62	0	31
Veh/hr	1223	26	26	0	13
Veh/hr	0	0	0	0	0
Veh/hr	0	0	0	0	0
Veh/hr	0	0	0	0	0
Veh/hr	1393	29	29	0	15
Veh/hr	1559	33	33	0	16
Veh/hr	1094	23	23	0	12
Veh/hr	197	4	4	0	2
Veh/hr	0	0	0	0	0
Source Type	Auto	Medium Tr	Heavy Truc	Buses	Motorcycles
Veh/hr					

Speed Limit (mph) Speed Limit (kph)

50 81
50 81
50 81
50 81
50 81
50 81
50 81
40 64
40 64
40 64
45 72
45 72
45 72
45 72
45 72

EXISTING

Source Types TNM 2.5	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	Percentage Heavy Trucks:	Percentage Buses:
M, P%	5269	4.0	1.0	-	50.0	0.0
M, P%	5269	4.0	1.0	-	50.0	0.0
M, P%	4823	4.0	1.0	-	50.0	0.0
M, P%	4581	4.0	1.0	-	50.0	0.0
M, P%	3104	4.0	1.0	-	50.0	0.0
M, P%	1288	4.0	1.0	-	50.0	0.0
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	1467	4.0	1.0	-	50.0	0.0
M, P%	1641	4.0	1.0	-	50.0	0.0
M, P%	1152	4.0	1.0	-	50.0	0.0
M, P%	207	4.0	1.0	-	50.0	0.0
M, P%						

Source Type	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	- percentage Heavy Trucks:	- percentage Buses:
M, P%	2931	3.2	1.0	-	100.0	0.0
M, P%	639	0.0	0.0	-	100.0	0.0
M, P%	696	0.9	0.4	-	100.0	0.0

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA-TNM	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr					
5529	116	116	0	58	
5529	116	116	0	58	
4598	97	97	0	48	
4370	92	92	0	46	
3021	64	64	0	32	
1682	35	35	0	18	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1577	33	33	1	17	
1796	38	38	0	19	
1416	30	30	0	15	
247	5	5	0	3	

EXISTING PLUS PROJECT

Source Types CadnaA-TNM	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	Percentage Heavy Trucks:	Percentage Buses:
M, P%	5820	4.0	1.0	-	50.0	0.0
M, P%	5820	4.0	1.0	-	50.0	0.0
M, P%	4840	4.0	1.0	-	50.0	0.0
M, P%	4600	4.0	1.0	-	50.0	0.0
M, P%	3180	4.0	1.0	-	50.0	0.0
M, P%	1770	4.0	1.0	-	50.0	0.0
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	0	#DIV/0!	#DIV/0!	-	#DIV/0!	#DIV/0!
M, P%	1661	4.0	1.0	-	50.0	0.0
M, P%	1890	4.0	1.0	-	50.0	0.0
M, P%	1490	4.0	1.0	-	50.0	0.0
M, P%	260	4.0	1.0	-	50.0	0.0

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA-TNM	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr					
Veh/hr	2810	59	59		30
Veh/hr	2060	43	43		22
Veh/hr	4923	104	104		52
Veh/hr	3964	83	83		42
Veh/hr	2982	63	63		31
Veh/hr	4545	96	96		48
Veh/hr	2810	59	59		30
Veh/hr	3581	75	75		38
Veh/hr	4261	90	90		45
Veh/hr	2337	49	49		25
Veh/hr	3751	79	79		39
Veh/hr	3574	75	75		38
Veh/hr	2637	56	56		28

YEAR 2025 WITHOUT PROJECT

Source Types CadnaA-TNM	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	- percentage Heavy Trucks:	- percentage Buses:
M, P%	2957	4.0	1.0	-	50.0	0.0
M, P%	2169	4.0	1.0	-	50.0	0.0
M, P%	5182	4.0	1.0	-	50.0	0.0
M, P%	4172	4.0	1.0	-	50.0	0.0
M, P%	3139	4.0	1.0	-	50.0	0.0
M, P%	4784	4.0	1.0	-	50.0	0.0
M, P%	2957	4.0	1.0	-	50.0	0.0
M, P%	3770	4.0	1.0	-	50.0	0.0
M, P%	4485	4.0	1.0	-	50.0	0.0
M, P%	2460	4.0	1.0	-	50.0	0.0
M, P%	3949	4.0	1.0	-	50.0	0.0
M, P%	3762	4.0	1.0	-	50.0	0.0
M, P%	2775	4.0	1.0	-	50.0	0.0

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA-TNM	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

YEAR 2025 WITH PROJECT

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr					
Veh/hr	3097	65	65		33
Veh/hr	2128	45	45		22
Veh/hr	4940	104	104		52
Veh/hr	3981	84	84		42
Veh/hr	3050	64	64		32
Veh/hr	4883	103	103		51
Veh/hr	3097	65	65		33
Veh/hr	3886	82	82		41
Veh/hr	4532	95	95		48
Veh/hr	2489	52	52		26
Veh/hr	3971	84	84		42
Veh/hr	3743	79	79		39
Veh/hr	2755	58	58		29

Source Types CadnaA-TNM	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	- percentage Heavy Trucks:	- percentage Buses:
M, P%	3260	4.0	1.0	-	50.0	0.0
M, P%	2240	4.0	1.0	-	50.0	0.0
M, P%	5200	4.0	1.0	-	50.0	0.0
M, P%	4190	4.0	1.0	-	50.0	0.0
M, P%	3210	4.0	1.0	-	50.0	0.0
M, P%	5140	4.0	1.0	-	50.0	0.0
M, P%	3260	4.0	1.0	-	50.0	0.0
M, P%	4090	4.0	1.0	-	50.0	0.0
M, P%	4770	4.0	1.0	-	50.0	0.0
M, P%	2620	4.0	1.0	-	50.0	0.0
M, P%	4180	4.0	1.0	-	50.0	0.0
M, P%	3940	4.0	1.0	-	50.0	0.0
M, P%	2900	4.0	1.0	-	50.0	0.0

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA-TNM	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

YEAR 2030 WITHOUT PROJECT

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr					
Veh/hr	2223	47	47		23
Veh/hr	1471	31	31		15
Veh/hr	3717	78	78		39
Veh/hr	3033	64	64		32
Veh/hr	2478	52	52		26
Veh/hr	4807	101	101		51
Veh/hr	3442	72	72		36
Veh/hr	3638	77	77		38
Veh/hr	4857	102	102		51
Veh/hr	2411	51	51		25
Veh/hr	2942	62	62		31
Veh/hr	2944	62	62		31
Veh/hr	1682	35	35		18

Source Types CadnaA-TNM	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	Percentage Heavy Trucks:	Percentage Buses:
M, P%	2340	4.0	1.0	-	50.0	0.0
M, P%	1549	4.0	1.0	-	50.0	0.0
M, P%	3912	4.0	1.0	-	50.0	0.0
M, P%	3192	4.0	1.0	-	50.0	0.0
M, P%	2609	4.0	1.0	-	50.0	0.0
M, P%	5060	4.0	1.0	-	50.0	0.0
M, P%	3623	4.0	1.0	-	50.0	0.0
M, P%	3830	4.0	1.0	-	50.0	0.0
M, P%	5113	4.0	1.0	-	50.0	0.0
M, P%	2538	4.0	1.0	-	50.0	0.0
M, P%	3096	4.0	1.0	-	50.0	0.0
M, P%	3099	4.0	1.0	-	50.0	0.0
M, P%	1771	4.0	1.0	-	50.0	0.0

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

Source Types TNM 2.5	Veh/hr
Auto	95
Medium Truck	2
Heavy Truck	2
Buses	0
Motorcycles	1

Source Types CadnaA-TNM	M, P%
Number of Vehicles/hr	100
Percentage Trucks/Buses	4.0
Percentage Motorcycles	1.0
Percentage of heavy vehicles:	-
- percentage Heavy Trucks	50.0
- percentage Buses:	0.0

DIFFERENCE IN VOLUME

	FROM	TO	
1 Olympic Parkway	Brandywine Avenue	Santa Victoria Road	
2 Olympic Parkway	Santa Victoria Road	Heritage Road	
3 Olympic Parkway	Heritage Road	Santa Venetia Street	
4 Olympic Parkway	Santa Venetia Street	La Media Road	
5 Olympic Parkway	La Media Road	East Palomar Street	
6 Heritage Road	East Palomar Street	Olympic Parkway	
7 Heritage Road	Olympic Parkway	Santa Victoria Road	
8 Heritage Road	Santa Victoria Road	Santa Liza Avenue	
9 Heritage Road	Santa Liza Avenue	Main Street	
10 La Media Road	East Palomar Street	Olympic Parkway	
11 La Media Road	Olympic Parkway	Santa Venetia Street	
12 La Media Road	Santa Venetia Street	Birch Road	
13 La Media Road	Birch Road	Santa Luna Street	

Source Types TNM 2.5	Auto	Medium Truck	Heavy Truck	Buses	Motorcycles
Veh/hr					
Veh/hr					
2527	53	53	0	27	
1539	32	32	0	16	
3734	79	79	0	39	
3050	64	64	0	32	
2546	54	54	0	27	
5111	108	108	0	54	
3696	78	78	0	39	
3943	83	83	0	42	
5111	108	108	0	54	
2546	54	54	1	27	
3145	66	66	0	33	
3164	67	67	0	33	
1767	37	37	0	19	

YEAR 2030 WITH PROJECT

Source Types CadnaA-TNM	Number of Vehicles/hr	Percentage Trucks/Buses	Percentage Motorcycles	Percentage of heavy vehicles:	Percentage Heavy Trucks:	Percentage Buses:
M, P%	2660	4.0	1.0	-	50.0	0.0
M, P%	1620	4.0	1.0	-	50.0	0.0
M, P%	3930	4.0	1.0	-	50.0	0.0
M, P%	3210	4.0	1.0	-	50.0	0.0
M, P%	2680	4.0	1.0	-	50.0	0.0
M, P%	5380	4.0	1.0	-	50.0	0.0
M, P%	3890	4.0	1.0	-	50.0	0.0
M, P%	4150	4.0	1.0	-	50.0	0.0
M, P%	5380	4.0	1.0	-	50.0	0.0
M, P%	2681	4.0	1.0	-	50.0	0.0
M, P%	3310	4.0	1.0	-	50.0	0.0
M, P%	3330	4.0	1.0	-	50.0	0.0
M, P%	1860	4.0	1.0	-	50.0	0.0

Calibration Runs

Olympic Parkway	Eastbound
Olympic Parkway	Westbound
La Media Road	Northbound
La Media Road	Southbound
Heritage Road	Northbound
Heritage Road	Southbound

APPENDIX C

CadnaA Model Data
*(CadnaA Noise Model files available
upon request, on CD-ROM)*

Bericht (Cal_1.cna)

Gruppentabelle Tag und Nacht

Name	Expression	Partial Sum Level					
		2_Olympic Parkway		3_La Media Road		4_Heritage Road	
		Day	Night	Day	Night	Day	Night

Source	Partial Level						
	Name	M.	ID	2_Olympic Parkway		3_La Media Road	4_Heritage Road
				Day	Night	Day	Night
Olympic Parkway west of Heritage Road				30.4		27.1	41.5
Heritage Road north of Olympic Parkway				15.5		15.0	66.3
Heritage Road south of Olympic Parkway							-64.3
La Media Road north of Olympic Parkway							
La Media Road Olympic Parkway to Santa Venetia				31.4		35.3	6.7
Olympic Parkway Heritage Road to La Media Road				70.7	-69.7	45.3	41.9
Olympic Parkway east of La Media Road							
La Media Road Santa Venetia to Birch				33.6		60.6	-72.3
La Media Road south of Birch				22.5		31.7	9.0
							13.8

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation		Operating Time			K0
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(dB)	
			(dBA)	(dBA)	(dBA)		dB(A)		dB(A)	dB(A)	dB(A)				Day	(min)	Night	(min)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation		Oper
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)		dB(A)		dB(A)	dB(A)	dB(A)				Day	(min)

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation		Oper
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)		dB(A)		dB(A)	dB(A)	dB(A)				Day	(min)

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation		Oper
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)		dB(A)		dB(A)	dB(A)	dB(A)				Day	(min)

Schienen

Name	M.	ID	Lm,E		Train Class	Add.Level		Vmax		
			Day	Night		Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)		(dB)	(dB)	(dB)	(km/h)	

Zugklassen

Name	M.	ID	Train Class										Add. Level			Vmax	
			Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)	Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(km/h)

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains			v	I	Dfz	Dae	Lm,E,i (dB)	
	(dBA)	(dBA)		(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night

Parkplätze

Name	M.	ID	Type	Lwa			Event Data					Penalty Type		Penalty Surface		A
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ			Kpa	Type	Kstro	Surface
			(dB)	(dB)	(dB)					Day	Special	Night	(dB)		(dB)	

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data					
			Day (dBA)	Evening (dBA)	Night (dBA)	DTV	Str.class.	Day	Evening	Night	Day	Evening	p (%)
Olympic Parkway west of Heritage Road			71.0	0.0	0.0			2931.0	0.0	0.0	3.2	0.0	(
Heritage Road north of Olympic Parkway			60.8	0.0	0.0			696.0	0.0	0.0	0.9	0.0	(
Heritage Road south of Olympic Parkway			0.0	0.0	0.0	0	Federal Road						
La Media Road north of Olympic Parkway			0.0	0.0	0.0	0	Federal Road						
La Media Road Olympic Parkway to Santa Venetia			61.4	0.0	0.0			639.0	0.0	0.0	0.0	0.0	(
Olympic Parkway Heritage Road to La Media Road			71.0	0.0	0.0			2931.0	0.0	0.0	3.2	0.0	(
Olympic Parkway east of La Media Road			0.0	0.0	0.0	0	Federal Road						
La Media Road Santa Venetia to Birch			61.4	0.0	0.0			639.0	0.0	0.0	0.0	0.0	(
La Media Road south of Birch			61.4	0.0	0.0			639.0	0.0	0.0	0.0	0.0	(

Ampeln

Name	M.	ID	Active			Height	Coordinates			
			Day	Evening	Night		Begin	X	Y	Z
						(m)		(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
2_Olympic Parkway			70.7	-69.7	0.0	0.0	x	Total		1.50	r	1930368.68	550692.46	127.50
3_La Media Road			60.8	-72.2	0.0	0.0	x	Total		1.50	r	1931069.26	550535.33	149.50
4_Heritage Road			66.4	-64.3	0.0	0.0	x	Total		1.50	r	1929358.92	550452.81	120.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Flächenquellen

Name	Height		Coordinates			Ground
	Begin	End	x	y	z	
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Parkplätze

Name	Height		Coordinates			Ground
	Begin	End	x	y	z	
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
Olympic Parkway west of Heritage Road			1928375.90	549542.64	89.00	89.00		
			1928492.26	549599.32	90.80	90.80		
			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road south of Olympic Parkway			1929423.04	550178.28	108.53	108.53		
			1929473.38	549976.13	109.75	109.75		
			1929570.94	549791.43	117.38	117.38		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
			1929614.55	549712.49	126.50	126.50		
			1929654.39	549619.26	129.60	129.60		
			1929668.60	549547.28	130.50	130.50		
			1929681.38	549383.38	131.10	131.10		
			1929682.33	549124.79	130.80	130.80		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to La Media Road			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930458.28	550778.38	130.20	130.20		
			1930757.62	550994.35	134.75	134.75		
			1930907.40	551072.53	136.60	136.60		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		

Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left	right			horz.	vert.	Begin	End	x	y	z	Ground
			(m)	(m)	(m)				(m)	(m)	(m)	(m)	(m)	(m)
									1928342.12	549672.82	123.45	121.65		
									1928455.32	549718.14	121.92	120.12		
									1928444.98	549751.05	122.53	120.73		
									1928479.58	549781.14	122.20	120.40		
									1928499.33	549757.44	122.20	120.40		
									1928581.69	549825.52	121.30	119.50		
									1928701.29	549869.52	120.40	118.60		
									1928686.60	549897.95	120.10	118.30		
									1928733.42	549932.17	121.00	119.20		
									1928757.30	549910.55	121.00	119.20		
									1928799.05	549979.75	122.80	121.00		

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1928771.40	549994.42	122.80	121.00
											1928794.86	550041.80	122.20	120.40
											1928872.81	549994.42	122.50	120.70
											1928887.97	550020.00	123.40	121.60
											1928887.97	550056.73	121.30	119.50
											1928839.64	550092.74	122.80	121.00
											1928897.45	550126.86	120.70	118.90
											1928923.98	550076.16	121.60	119.50
											1928953.36	550060.99	122.20	120.40
											1928985.11	550091.32	122.20	120.40
											1928944.21	550155.20	120.70	118.90
											1928966.03	550176.45	121.30	119.50
											1929012.85	550156.14	121.30	119.50
											1929076.98	550156.33	121.90	120.10
											1929125.49	550175.70	122.20	120.40
											1929116.39	550204.05	122.20	120.40
											1929162.66	550219.73	122.20	120.40
											1929173.25	550191.67	122.20	120.40
											1929315.88	550236.68	124.40	122.60
											1929339.10	550265.11	124.40	122.60
											1929333.13	550326.61	124.66	122.86
											1929307.76	550410.79	125.30	123.50
											1929260.59	550505.71	131.10	129.30
											1929199.67	550571.15	132.60	130.80
											1929270.33	550639.09	128.93	127.13
											1929288.57	550607.81	128.93	127.13
											1929325.30	550580.56	128.30	126.50
											1929365.10	550496.45	128.30	126.50
											1929399.93	550447.41	128.90	127.10
											1929452.53	550424.19	129.10	129.10
											1929430.73	550397.18	128.90	127.10
											1929431.29	550375.18	128.90	127.10
											1929458.19	550361.32	129.55	127.75
											1929449.78	550348.05	129.80	128.00
											1929470.90	550324.17	130.76	128.96
											1929470.90	550310.25	131.40	129.60
											1929489.84	550298.12	131.40	129.60
											1929499.67	550298.17	131.40	129.60
											1929509.82	550295.87	131.40	129.60
											1929518.59	550285.68	131.40	129.60
											1929538.66	550282.40	131.40	129.60
											1929543.66	550297.47	131.70	129.90
											1929587.29	550297.49	131.70	129.90
											1929629.70	550312.65	132.00	130.20
											1929647.70	550336.29	132.00	130.20
											1929649.96	550355.19	132.30	130.50
											1929709.91	550355.19	133.50	131.70
											1929725.78	550362.18	133.80	132.00
											1929740.71	550384.69	134.40	132.60
											1929745.19	550432.90	136.80	135.00
											1929864.13	550459.91	140.20	138.40
											1929856.31	550488.81	140.20	138.40
											1929932.84	550512.03	140.50	138.70
											1929937.10	550527.91	141.10	139.30
											1929980.36	550554.80	142.04	140.24
											1929995.59	550554.61	142.34	140.54
											1929995.21	550571.35	142.65	140.85
											1929989.15	550588.70	143.30	141.50
											1930044.83	550602.58	143.60	141.80
											1930058.56	550599.45	143.90	142.10
											1930066.62	550616.31	143.90	142.10
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	148.75	146.95
											1931060.36	550132.51	149.05	147.25
											1931018.56	549917.54	151.80	150.00
											1930997.07	549886.49	152.40	150.60
											1930997.07	549779.00	152.70	150.90
											1930976.75	549752.30	154.50	152.70
											1930943.65	549848.97	153.30	151.50
											1930893.24	549888.47	152.40	150.60
											1930750.67	549928.35	151.80	150.00
											1930760.09	550356.28	145.10	143.30
											1930599.84	550341.98	145.10	143.30
											1930572.38	550326.56	146.30	144.50
											1930531.75	550308.13	146.90	145.10
											1930492.63	550308.50	147.50	145.70
											1930409.49	550298.34	144.50	142.70
											1930305.29	550306.71	139.90	138.10
											1930234.83	550328.05	139.30	137.50
											1930167.20	550347.01	138.10	136.30
											1930133.31	550347.01	138.10	136.30
											1930110.44	550362.89	137.80	136.00
											1930091.36	550362.77	137.50	135.70
											1930039.26	550346.22	138.40	136.60
											1929961.39	550305.22	139.00	137.20
											1929944.47	550281.14	139.60	137.80
											1929917.38	550269.85	140.50	138.70
											1929895.88	550242.53	139.00	137.20
											1929853.19	550227.01	137.20	135.40
											1929821.40	550198.80	136.60	134.80
											1929773.81	550174.91	135.95	134.15
											1929747.09	550175.06	135.30	133.50
											1929672.60	550144.21	135.30	133.50
											1929654.55	550128.03	134.40	132.60
											1929563.78	550084.14	133.50	131.70
											1929563.48	550068.62	132.90	131.10
											1929574.67	550057.99	132.90	131.10
											1929574.58	550046.42	132.90	131.10
											1929544.77	550032.60	133.50	131.70
											1929592.54	549922.72	134.40	132.60
											1929645.84	549826.43	136.90	135.10
											1929645.84	549800.95	137.20	135.40
											1929661.36	549756.76	137.50	135.70
											1929661.06	549743.92	137.50	135.70
											1929699.43	549609.81	139.00	137.20
											1929547.35	549655.29	132.90	131.10
											1929570.34	549664.55	132.90	131.10
											1929468.77	549808.26	135.30	133.50
											1929429.64	549840.61	135.95	134.15
											1929360.99	549959.11	137.50	135.70

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates				
					left	right	horz.	vert.	Begin	End	x	y	z
									(m)	(m)	(m)	(m)	Ground
									1929344.87	549971.67	137.50	135.70	
									1929295.31	549971.08	137.80	136.00	
									1929242.16	549965.70	138.10	136.30	
									1929189.61	549949.58	138.10	136.30	
									1929166.91	549935.24	136.30	134.50	
									1929166.91	549921.51	136.30	134.50	
									1929146.01	549915.54	136.30	134.50	
									1929120.33	549879.11	136.00	134.20	
									1929095.85	549910.76	136.00	134.20	
									1929072.56	549896.01	136.00	134.20	
									1929069.19	549884.45	136.00	134.20	
									1929060.60	549884.45	136.00	134.20	
									1929055.94	549876.37	136.00	134.20	
									1929047.56	549876.46	136.00	134.20	
									1929026.58	549855.40	134.40	132.60	
									1928984.07	549792.20	123.75	121.95	
									1928950.40	549768.60	120.70	118.90	
									1928928.11	549746.49	117.65	115.85	
									1928910.62	549730.32	111.50	109.70	
									1928845.80	549663.13	102.40	100.60	
									1928868.49	549639.84	105.45	103.65	
									1929509.51	549659.60	133.80	132.00	
									1929443.86	549678.98	137.50	135.70	
									1929419.40	549704.37	139.80	138.00	
									1929283.87	549877.62	142.95	141.15	
									1929266.39	549877.80	142.95	141.15	
									1929246.38	549867.50	142.95	141.15	
									1929233.54	549874.21	142.95	141.15	
									1929193.53	549845.10	143.30	141.50	
									1929167.70	549889.59	136.30	134.50	
									1929895.04	549109.28	129.80	128.00	
									1929912.10	549009.74	129.80	128.00	
									1929910.68	548918.73	129.50	127.70	
									1929899.02	548837.46	123.75	121.95	
									1929924.98	548809.62	122.20	120.40	
									1929935.64	548787.58	120.70	118.90	
									1929947.97	548756.77	118.30	116.50	
									1930907.43	551027.87	143.30	141.50	
									1930858.45	550995.62	142.39	140.59	
									1930812.46	550978.29	141.63	139.83	
									1930726.45	550931.11	140.10	138.30	
									1930605.20	550840.32	137.75	135.95	
									1930632.68	550793.13	136.90	135.10	
									1930999.12	550692.72	144.80	144.80	
									1931031.36	550692.72	144.68	144.68	
									1931022.82	550748.19	144.46	144.46	
									1931007.18	550805.08	144.24	144.24	
									1930940.28	550944.25	143.65	143.65	
									1930940.88	550960.38	143.59	143.59	
									1930907.43	551027.87	143.30	143.30	

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates			
							Begin	x	y	z
						(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Existing_111513.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5		6			
				Day	Night												
Olympic Parkway Santa Victoria to Heritage Road				48.9		51.1		57.6	-83.6	55.2	-86.2	54.9	-86.7	56.7			
Heritage Road north of Olympic Parkway				28.4		28.7		31.6		33.8		35.4		35.5			
Heritage Road Santa Liza Avenue to Main Street				39.1		39.7		39.1		35.8		29.7		27.4			
La Media Road north of Olympic Parkway																	
La Media Road Olympic Parkway to Santa Venetia																	
Olympic Parkway Heritage Road to Santa Venetia Street				36.5		39.0		38.5		39.9		41.4		42.4			
Olympic Parkway east of La Media Road																	
La Media Road Santa Venetia to Birch																	
La Media Road south of Birch																	
Olympic Parkway Brandywine to Santa Victoria				53.6	-87.6	53.9	-87.1	44.5		41.8		38.7		39.6			
Olympic Parkway Santa Venetia Street to La Media Road												26.4		28.5		27.9	
Heritage Road Olympic Parkway to Santa Victoria Road				34.5		35.3		34.3		36.4		39.7		42.2			
Heritage Road Santa Victoria Road to Santa Liza Avenue				38.1		38.8		37.5		30.0		29.5		26.5			

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra		
			(dB)	(dB)	(dB)	(dB)	(dB)	(km/h)		

Zugklassen

Parkplätze

Name	M.	ID	Type	Lwa			Event Data				Penalty Type		Penalty Surface		A		
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Day	Special	Night	Kpa	Type	Kstro	Surface
				(dBA)	(dBA)	(dBA)				(dB)			(dB)				

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data				
			Day	Evening	Night	DTV	Str.class.	M	p	Day	Eve	
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Eve
Olympic Parkway Santa Victoria to Heritage Road			73.4	0.0	0.0			5269.0	0.0	0.0	4.0	
Heritage Road north of Olympic Parkway			64.5	0.0	0.0			1288.0	0.0	0.0	4.0	
Heritage Road Santa Liza Avenue to Main Street			70.9	0.0	0.0			5647.0	0.0	0.0	4.0	
La Media Road north of Olympic Parkway			66.4	0.0	0.0			1467.0	0.0	0.0	4.0	
La Media Road Olympic Parkway to Santa Venetia			66.9	0.0	0.0			1641.0	0.0	0.0	4.0	
Olympic Parkway Heritage Road to Santa Venetia Street			73.1	0.0	0.0			4823.0	0.0	0.0	4.0	
Olympic Parkway east of La Media Road			71.1	0.0	0.0			3104.0	0.0	0.0	4.0	
La Media Road Santa Venetia to Birch			65.4	0.0	0.0			1152.0	0.0	0.0	4.0	
La Media Road south of Birch			57.9	0.0	0.0			207.0	0.0	0.0	4.0	
Olympic Parkway Brandywine to Santa Victoria			73.4	0.0	0.0			5269.0	0.0	0.0	4.0	
Olympic Parkway Santa Venetia Street to La Media Road			72.8	0.0	0.0			4581.0	0.0	0.0	4.0	
Heritage Road Olympic Parkway to Santa Victoria Road			69.6	0.0	0.0			4157.0	0.0	0.0	4.0	
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.9	0.0	0.0			4470.0	0.0	0.0	4.0	

Ampeln

Name	M.	ID	Active		Height	Coordinates			
			Day	Evening	Night	Begin	X	Y	Z
			(m)	(m)	(m)	(m)	(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
1			55.1	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			56.1	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			58.0	-83.2	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			55.6	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			55.3	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			57.1	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			59.3	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			59.8	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			56.8	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			57.1	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			55.0	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			60.0	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			60.8	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			58.6	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			54.4	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			54.9	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			57.7	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53
18			60.1	-79.1	0.0	0.0	x	Total		1.50	r	1930757.50	551149.45	164.58
19			57.6	-80.0	0.0	0.0	x	Total		1.50	r	1930761.84	551237.68	163.69
20			57.9	-77.5	0.0	0.0	x	Total		1.50	r	1930725.07	551431.57	160.91
21			63.1	-76.3	0.0	0.0	x	Total		1.50	r	1931138.01	551153.15	156.13
22			62.3	-76.3	0.0	0.0	x	Total		1.50	r	1931008.44	551062.29	153.21
23			60.4	-76.3	0.0	0.0	x	Total		1.50	r	1931036.25	550950.55	152.18

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
24			57.9	-77.8	0.0	0.0	x	Total	1.50	r	1931100.09	550770.09	154.42	
25			58.7	-76.3	0.0	0.0	x	Total	1.50	r	1931125.09	550667.41	153.90	
26			60.1	-74.5	0.0	0.0	x	Total	1.50	r	1931124.03	550600.25	155.50	
27			59.3	-75.3	0.0	0.0	x	Total	1.50	r	1931140.66	550479.47	157.00	
28			58.1	-76.0	0.0	0.0	x	Total	1.50	r	1931147.76	550311.77	156.35	
29			54.7	-74.6	0.0	0.0	x	Total	1.50	r	1931137.33	550190.64	150.83	
30			53.1	-75.1	0.0	0.0	x	Total	1.50	r	1931138.69	550118.16	151.67	
31			50.8	-77.1	0.0	0.0	x	Total	1.50	r	1931147.15	550049.69	152.32	
32			48.8	-78.7	0.0	0.0	x	Total	1.50	r	1931156.37	549932.81	153.81	
33			45.4	-83.0	0.0	0.0	x	Total	1.50	r	1931211.46	549751.64	155.30	
V2-6			42.9	-88.0	0.0	0.0	x	Total	1.50	r	1930915.85	549714.72	154.60	
V2-8			43.6	-88.2	0.0	0.0	x	Total	1.50	r	1930956.46	549784.85	155.50	
V2-7			43.7	-89.6	0.0	0.0	x	Total	1.50	r	1930901.97	549773.00	154.81	
V2-9			44.1	-89.9	0.0	0.0	x	Total	1.50	r	1930919.38	549861.74	154.42	
V2-10			44.1	-92.4	0.0	0.0	x	Total	1.50	r	1930794.29	549910.94	153.56	
V2-5			59.3	-76.2	0.0	0.0	x	Total	1.50	r	1931007.95	550727.93	146.10	
V2-4			57.0	-78.7	0.0	0.0	x	Total	1.50	r	1930971.17	550839.05	145.27	
V2-3			65.3	-75.3	0.0	0.0	x	Total	1.50	r	1930890.79	551001.40	144.43	
V2-2			65.3	-75.6	0.0	0.0	x	Total	1.50	r	1930723.36	550915.74	141.39	
V2-1			65.2	-75.7	0.0	0.0	x	Total	1.50	r	1930628.47	550842.92	139.40	
V2-11			55.8	-86.2	0.0	0.0	x	Total	1.50	r	1930486.84	550303.20	148.74	
V2-12			56.9	-85.2	0.0	0.0	x	Total	1.50	r	1930424.61	550296.62	146.50	
V2-13			53.5	-88.4	0.0	0.0	x	Total	1.50	r	1930347.90	550248.12	142.82	
V2-14			57.5	-84.9	0.0	0.0	x	Total	1.50	r	1930277.71	550310.56	141.23	
V2-15			53.1	-87.1	0.0	0.0	x	Total	1.50	r	1930187.92	550334.14	140.34	
V2-16			51.9	-89.7	0.0	0.0	x	Total	1.50	r	1930181.15	550278.86	141.13	
V2-17			55.2	-85.1	0.0	0.0	x	Total	1.50	r	1930113.09	550353.69	139.35	
V2-18			57.4	-83.3	0.0	0.0	x	Total	1.50	r	1930061.10	550348.62	139.73	
V2-19			53.1	-87.6	0.0	0.0	x	Total	1.50	r	1930061.57	550307.25	140.71	
V2-20			55.9	-84.7	0.0	0.0	x	Total	1.50	r	1929915.49	550257.75	140.73	
V2-21			53.6	-86.9	0.0	0.0	x	Total	1.50	r	1929902.95	550217.46	140.53	
V2-22			58.3	-82.3	0.0	0.0	x	Total	1.50	r	1929860.57	550225.81	139.18	
V2-23			50.8	-89.4	0.0	0.0	x	Total	1.50	r	1929876.39	550159.85	140.51	
V2-24			57.8	-82.8	0.0	0.0	x	Total	1.50	r	1929768.65	550171.19	137.39	
V2-25			56.7	-83.6	0.0	0.0	x	Total	1.50	r	1929668.37	550131.70	136.09	
V2-26			51.0	-89.2	0.0	0.0	x	Total	1.50	r	1929685.31	550074.76	136.59	
V2-27			59.1	-80.6	0.0	0.0	x	Total	1.50	r	1929574.16	550085.80	135.03	
V2-28			58.6	-80.2	0.0	0.0	x	Total	1.50	r	1929553.78	550029.89	134.92	
V2-30			50.9	-88.4	0.0	0.0	x	Total	1.50	r	1929642.84	549978.45	136.50	
V2-29			58.2	-80.5	0.0	0.0	x	Total	1.50	r	1929583.44	549968.30	135.38	
V2-31			59.3	-79.2	0.0	0.0	x	Total	1.50	r	1929625.03	549871.48	137.33	
V2-32			49.9	-88.8	0.0	0.0	x	Total	1.50	r	1929688.16	549873.97	138.59	
V2-33			59.1	-79.5	0.0	0.0	x	Total	1.50	r	1929667.32	549766.75	139.05	
V2-34			62.0	-76.9	0.0	0.0	x	Total	1.50	r	1929695.79	549663.77	140.13	
V2-35			51.7	-87.1	0.0	0.0	x	Total	1.50	r	1929928.86	549088.70	131.93	
V2-36			50.1	-88.7	0.0	0.0	x	Total	1.50	r	1929953.68	548988.29	130.03	
V2-37			49.3	-90.2	0.0	0.0	x	Total	1.50	r	1929967.52	548903.04	126.14	
V2-38			58.0	-81.5	0.0	0.0	x	Total	1.50	r	1929487.30	549602.92	137.10	
V2-39			57.4	-82.0	0.0	0.0	x	Total	1.50	r	1929482.53	549658.14	137.20	
V2-40			54.6	-84.8	0.0	0.0	x	Total	1.50	r	1929419.85	549696.64	140.27	
V2-41			53.8	-85.8	0.0	0.0	x	Total	1.50	r	1929359.58	549774.03	142.59	
V2-42			53.2	-86.5	0.0	0.0	x	Total	1.50	r	1929289.30	549864.54	144.23	
V2-43			50.0	-90.5	0.0	0.0	x	Total	1.50	r	1929108.08	549825.26	136.81	
V2-44			56.2	-84.7	0.0	0.0	x	Total	1.50	r	1929045.07	549866.72	136.75	
V2-45			55.5	-85.3	0.0	0.0	x	Total	1.50	r	1928961.39	549770.87	122.50	
V2-47			52.8	-87.8	0.0	0.0	x	Total	1.50	r	1928923.61	549635.92	109.60	
V2-46			56.2	-84.8	0.0	0.0	x	Total	1.50	r	1928871.97	549681.88	107.55	
V2-1-2			66.6	-75.2	0.0	0.0	x	Total	4.00	r	1930629.28	550843.61	141.90	
V2-2-2			67.1	-74.5	0.0	0.0	x	Total	4.00	r	1930723.71	550916.08	143.89	
V2-3-2			66.0	-74.5	0.0	0.0	x	Total	4.00	r	1930891.34	551001.54	146.93	
V2-4-2			58.3	-77.2	0.0	0.0	x	Total	4.00	r	1930971.81	550838.05	147.77	
V2-5-2			60.5	-75.7	0.0	0.0	x	Total	4.00	r	1931007.91	550727.51	148.60	
V2-6-2			44.0	-85.9	0.0	0.0	x	Total	4.00	r	1930914.86	549711.66	157.10	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto	Noise Type		(m)	(m)	(m)	(m)
V2-7-2			43.3	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			44.8	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			43.7	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			43.8	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			54.9	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			55.2	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			54.0	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			56.4	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			52.6	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			54.3	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			56.9	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			58.8	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			54.3	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			58.1	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			54.9	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			59.4	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			52.9	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			59.1	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			58.8	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			51.1	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			60.1	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			60.2	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			58.3	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.4	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.9	-78.8	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.7	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			59.1	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			62.3	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			52.3	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.8	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			49.1	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			58.1	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			57.6	-81.8	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.9	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			53.1	-86.2	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.9	-86.6	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			50.4	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			58.4	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			57.5	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			57.4	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			53.2	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			54.9	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist	LSlope
	Begin		End	x	y	z	Ground	(m)
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(%)
Olympic Parkway Santa Victoria to Heritage Road				1928682.00	549760.43	94.20	94.20	
				1928954.09	549972.85	100.30	100.30	
				1929144.48	550113.03	104.60	104.60	
				1929343.39	550175.55	107.60	107.60	
				1929419.17	550194.49	108.50	108.50	
Heritage Road north of Olympic Parkway				1929149.09	550700.89	121.30	121.30	
				1929302.54	550524.71	121.95	121.95	
				1929368.84	550399.68	115.85	115.85	
				1929406.73	550263.28	109.14	109.14	
				1929416.20	550211.66	108.54	108.54	
Heritage Road Santa Liza Avenue to Main Street				1929682.33	549124.79	130.80	130.80	
				1929663.23	548907.59	123.50	123.50	
				1929665.13	548644.26	118.90	118.90	
				1929655.36	548550.29	118.30	118.30	
				1929599.72	548440.52	117.70	117.70	
				1929508.00	548356.32	117.00	117.00	
				1929428.31	548303.69	115.85	115.85	

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.77	550177.51	108.53	108.53		
			1929474.74	549975.64	109.75	109.75		
			1929571.16	549791.84	117.38	117.38		
			1929614.85	549712.75	126.50	126.50		
			1929654.91	549620.07	129.60	129.60		
			1929669.26	549546.54	130.50	130.50		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929669.19	549546.66	130.50	130.50		
			1929681.14	549382.24	131.10	131.10		
			1929682.34	549124.56	130.80	130.80		

Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever	Height		Coordinates							
						left	right	horz.	vert.	Begin	End	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1928342.12	549672.82	123.45	121.65		
										1928455.32	549718.14	121.92	120.12		
										1928444.98	549751.05	122.53	120.73		
										1928479.58	549781.14	122.20	120.40		
										1928499.33	549757.44	122.20	120.40		
										1928581.69	549825.52	121.30	119.50		
										1928701.29	549869.52	120.40	118.60		
										1928686.60	549897.95	120.10	118.30		
										1928733.42	549932.17	121.00	119.20		

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1928757.30	549910.55	121.00	119.20
									1928799.05	549979.75	122.80	121.00
									1928771.40	549994.42	122.80	121.00
									1928794.86	550041.80	122.20	120.40
									1928872.81	549994.42	122.50	120.70
									1928887.97	550020.00	123.40	121.60
									1928887.97	550056.73	121.30	119.50
									1928839.64	550092.74	122.80	121.00
									1928897.45	550126.86	120.70	118.90
									1928923.98	550076.16	121.60	119.50
									1928953.36	550060.99	122.20	120.40
									1928985.11	550091.32	122.20	120.40
									1928944.21	550155.20	120.70	118.90
									1928966.03	550176.45	121.30	119.50
									1929012.85	550156.14	121.30	119.50
									1929076.98	550156.33	121.90	120.10
									1929125.49	550175.70	122.20	120.40
									1929116.39	550204.05	122.20	120.40
									1929162.66	550219.73	122.20	120.40
									1929173.25	550191.67	122.20	120.40
									1929315.88	550236.68	124.40	122.60
									1929339.10	550265.11	124.40	122.60
									1929333.13	550326.61	124.66	122.86
									1929307.76	550410.79	125.30	123.50
									1929260.59	550505.71	131.10	129.30
									1929199.67	550571.15	132.60	130.80
									1929270.33	550639.09	128.93	127.13
									1929288.57	550607.81	128.93	127.13
									1929325.30	550580.56	128.30	126.50
									1929365.10	550496.45	128.30	126.50
									1929399.93	550447.41	128.90	127.10
									1929452.53	550424.19	129.10	129.10
									1929430.73	550397.18	128.90	127.10
									1929431.29	550375.18	128.90	127.10
									1929458.19	550361.32	129.55	127.75
									1929449.78	550348.05	129.80	128.00
									1929470.90	550324.17	130.76	128.96
									1929470.90	550310.25	131.40	129.60
									1929489.84	550298.12	131.40	129.60
									1929499.67	550298.17	131.40	129.60
									1929509.82	550295.87	131.40	129.60
									1929518.59	550285.68	131.40	129.60
									1929538.66	550282.40	131.40	129.60
									1929543.66	550297.47	131.70	129.90
									1929587.29	550297.49	131.70	129.90
									1929629.70	550312.65	132.00	130.20
									1929647.70	550336.29	132.00	130.20
									1929649.96	550355.19	132.30	130.50
									1929709.91	550355.19	133.50	131.70
									1929725.78	550362.18	133.80	132.00
									1929740.71	550384.69	134.40	132.60
									1929745.19	550432.90	136.80	135.00
									1929864.13	550459.91	140.20	138.40
									1929856.31	550488.81	140.20	138.40
									1929932.84	550512.03	140.50	138.70
									1929937.10	550527.91	141.10	139.30
									1929980.36	550554.80	142.04	140.24
									1929995.59	550554.61	142.34	140.54
									1929995.21	550571.35	142.65	140.85
									1929989.15	550588.70	143.30	141.50
									1930044.83	550602.58	143.60	141.80
									1930058.56	550599.45	143.90	142.10
									1930066.62	550616.31	143.90	142.10

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40
											1929661.36	549756.76	135.70	135.70
											1929661.06	549743.92	135.70	135.70
											1929699.43	549609.81	137.20	137.20
											1929547.35	549655.29	131.10	131.10
											1929570.34	549664.55	131.10	131.10
											1929468.77	549808.26	133.50	133.50

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1929429.64	549840.61	134.15	134.15
									1929360.99	549959.11	135.70	135.70
									1929344.87	549971.67	135.70	135.70
									1929295.31	549971.08	136.00	136.00
									1929242.16	549965.70	136.30	136.30
									1929189.61	549949.58	136.30	136.30
									1929166.91	549935.24	134.50	134.50
									1929166.91	549921.51	134.50	134.50
									1929146.01	549915.54	134.50	134.50
									1929120.33	549879.11	134.20	134.20
									1929095.85	549910.76	134.20	134.20
									1929072.56	549896.01	134.20	134.20
									1929069.19	549884.45	134.20	134.20
									1929060.60	549884.45	134.20	134.20
									1929055.94	549876.37	134.20	134.20
									1929047.56	549876.46	134.20	134.20
									1929026.58	549855.40	132.60	132.60
									1928984.07	549792.20	121.95	121.95
									1928950.40	549768.60	118.90	118.90
									1928928.11	549746.49	115.85	115.85
									1928910.62	549730.32	109.70	109.70
									1928845.80	549663.13	100.60	100.60
									1928868.49	549639.84	103.65	103.65
									1929509.51	549659.60	132.00	132.00
									1929443.86	549678.98	135.70	135.70
									1929419.40	549704.37	138.00	138.00
									1929283.87	549877.62	141.15	141.15
									1929266.39	549877.80	141.15	141.15
									1929246.38	549867.50	141.15	141.15
									1929233.54	549874.21	141.15	141.15
									1929193.53	549845.10	141.50	141.50
									1929167.70	549889.59	134.50	134.50
									1929895.04	549109.28	128.00	128.00
									1929912.10	549009.74	128.00	128.00
									1929910.68	548918.73	127.70	127.70
									1929899.02	548837.46	121.95	121.95
									1929924.98	548809.62	120.40	120.40
									1929935.64	548787.58	118.90	118.90
									1929947.97	548756.77	116.50	116.50
									1930907.43	551027.87	141.50	141.50
									1930858.45	550995.62	140.59	140.59
									1930812.46	550978.29	139.83	139.83
									1930726.45	550931.11	138.30	138.30
									1930605.20	550840.32	135.95	135.95
									1930632.68	550793.13	135.10	135.10
									1930999.12	550692.72	144.80	144.80
									1931031.36	550692.72	144.68	144.68
									1931022.82	550748.19	144.46	144.46
									1931007.18	550805.08	144.24	144.24
									1930940.28	550944.25	143.65	143.65
									1930940.88	550960.38	143.59	143.59
									1930907.43	551027.87	143.30	143.30

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin	x	y	z	Ground
							(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Existing w Project_111513cna.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5		6			
				Day	Night												
Olympic Parkway Santa Victoria to Heritage Road				49.3		51.5		58.0	-83.6	55.6	-86.2	55.3	-86.7	57.1			
Heritage Road north of Olympic Parkway				29.8		30.1		33.0		35.2		36.8		36.9			
Heritage Road Santa Liza Avenue to Main Street				39.1		39.4		39.0		35.8		29.7		27.4			
La Media Road north of Olympic Parkway																	
La Media Road Olympic Parkway to Santa Venetia																	
Olympic Parkway Heritage Road to Santa Venetia Street				36.5		39.1		38.5		39.9		41.4		42.4			
Olympic Parkway east of La Media Road																	
La Media Road Santa Venetia to Birch																	
La Media Road south of Birch																	
Olympic Parkway Brandywine to Santa Victoria				54.0	-87.6	54.3	-87.1	44.9		42.2		39.2		40.1			
Olympic Parkway Santa Venetia Street to La Media Road												26.4		28.5		27.9	
Heritage Road Olympic Parkway to Santa Victoria Road				34.5		35.3		34.3		36.4		39.7		42.2			
Heritage Road Santa Victoria Road to Santa Liza Avenue				38.1		38.8		37.5		30.0		29.5		26.5			

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra	(dB)	(km/h)

Zugklassen

Parkplätze

Name	M.	ID	Type	Lwa			Event Data				Penalty Type		Penalty Surface		A		
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Day	Special	Night	Kpa	Type	Kstro	Surface
				(dBA)	(dBA)	(dBA)				(dB)			(dB)				

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data				
			Day	Evening	Night	DTV	Str.class.	M	p	Day	Eve	
			(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Eve
Olympic Parkway Santa Victoria to Heritage Road			73.9	0.0	0.0			5820.0	0.0	0.0	4.0	
Heritage Road north of Olympic Parkway			65.9	0.0	0.0			1770.0	0.0	0.0	4.0	
Heritage Road Santa Liza Avenue to Main Street			70.9	0.0	0.0			5647.0	0.0	0.0	4.0	
La Media Road north of Olympic Parkway			67.0	0.0	0.0			1661.0	0.0	0.0	4.0	
La Media Road Olympic Parkway to Santa Venetia			67.5	0.0	0.0			1890.0	0.0	0.0	4.0	
Olympic Parkway Heritage Road to Santa Venetia Street			73.1	0.0	0.0			4840.0	0.0	0.0	4.0	
Olympic Parkway east of La Media Road			71.2	0.0	0.0			3180.0	0.0	0.0	4.0	
La Media Road Santa Venetia to Birch			66.5	0.0	0.0			1490.0	0.0	0.0	4.0	
La Media Road south of Birch			58.9	0.0	0.0			260.0	0.0	0.0	4.0	
Olympic Parkway Brandywine to Santa Victoria			73.9	0.0	0.0			5820.0	0.0	0.0	4.0	
Olympic Parkway Santa Venetia Street to La Media Road			72.8	0.0	0.0			4600.0	0.0	0.0	4.0	
Heritage Road Olympic Parkway to Santa Victoria Road			69.6	0.0	0.0			4157.0	0.0	0.0	4.0	
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.9	0.0	0.0			4470.0	0.0	0.0	4.0	

Ampeln

Name	M.	ID	Active		Height	Coordinates			
			Day	Evening	Night	Begin	X	Y	Z
			(m)	(m)	(m)	(m)	(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates				
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)			
1			55.6	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50		
2			56.5	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50		
3			58.4	-83.2	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18		
4			56.1	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62		
5			55.8	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50		
6			57.5	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30		
7			59.6	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69		
8			60.2	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94		
9			57.9	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55		
10			58.2	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10		
11			55.6	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76		
12			60.1	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99		
13			60.8	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58		
14			58.6	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43		
15			54.4	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31		
16			55.0	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55		
17			57.9	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53		
18			60.3	-79.1	0.0	0.0	x	Total		1.50	r	1930757.50	551149.45	164.58		
19			57.8	-80.0	0.0	0.0	x	Total		1.50	r	1930761.84	551237.68	163.69		
20			58.3	-77.5	0.0	0.0	x	Total		1.50	r	1930725.07	551431.57	160.91		
21			63.2	-76.3	0.0	0.0	x	Total		1.50	r	1931138.01	551153.15	156.13		
22			62.5	-76.3	0.0	0.0	x	Total		1.50	r	1931008.44	551062.29	153.21		
23			60.8	-76.3	0.0	0.0	x	Total		1.50	r	1931036.25	550950.55	152.18		

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
24			58.4	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			59.5	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			61.1	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			60.3	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			59.1	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			55.6	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			54.0	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			51.7	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			49.6	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			46.1	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			43.4	-88.0	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			44.2	-88.2	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			44.2	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			44.5	-89.8	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			44.4	-92.4	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			59.9	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			57.5	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			65.4	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			65.3	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			65.3	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			55.9	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			57.0	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			53.5	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			57.5	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			53.2	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			52.0	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			55.3	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			57.4	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			53.2	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			55.9	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			53.7	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			58.4	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			50.9	-89.4	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			57.8	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			56.8	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			51.1	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			59.2	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			58.6	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			51.1	-88.4	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			58.3	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			59.3	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			50.1	-88.8	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			59.1	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			62.0	-76.9	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.7	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			50.2	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			49.3	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			58.0	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			57.5	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			54.7	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.9	-85.8	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			53.3	-86.5	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			50.3	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			56.6	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			55.9	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			53.2	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			56.6	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55
V2-1-2			66.6	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			67.1	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			66.1	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			58.8	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			61.1	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			44.6	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto	Noise Type		(m)	(m)	(m)	(m)
V2-7-2			43.8	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			45.4	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			44.1	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			44.2	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			55.0	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			55.2	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			54.0	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			56.4	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			52.7	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			54.3	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			56.9	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			58.8	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			54.4	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			58.2	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			54.9	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			59.4	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			53.0	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			59.2	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			58.9	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			51.3	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			60.2	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			60.3	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			58.4	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.6	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.9	-78.8	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.8	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			59.1	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			62.3	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			52.3	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.9	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			49.1	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			58.1	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			57.6	-81.8	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.9	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			53.2	-86.2	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			53.1	-86.6	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			50.7	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			58.8	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			57.9	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			57.8	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			53.6	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			55.8	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.77	550177.51	108.53	108.53		
			1929474.74	549975.64	109.75	109.75		
			1929571.16	549791.84	117.38	117.38		
			1929614.85	549712.75	126.50	126.50		
			1929654.91	549620.07	129.60	129.60		
			1929669.26	549546.54	130.50	130.50		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929669.19	549546.66	130.50	130.50		
			1929681.14	549382.24	131.10	131.10		
			1929682.34	549124.56	130.80	130.80		

Geometrie Schienen

Name	Height		Coordinates					
	Begin	End	x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever	Height		Coordinates							
						left	right	horz.	vert.	Begin	End	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1928342.12	549672.82	123.45	121.65		
										1928455.32	549718.14	121.92	120.12		
										1928444.98	549751.05	122.53	120.73		
										1928479.58	549781.14	122.20	120.40		
										1928499.33	549757.44	122.20	120.40		
										1928581.69	549825.52	121.30	119.50		
										1928701.29	549869.52	120.40	118.60		
										1928686.60	549897.95	120.10	118.30		
										1928733.42	549932.17	121.00	119.20		

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1928757.30	549910.55	121.00	119.20
									1928799.05	549979.75	122.80	121.00
									1928771.40	549994.42	122.80	121.00
									1928794.86	550041.80	122.20	120.40
									1928872.81	549994.42	122.50	120.70
									1928887.97	550020.00	123.40	121.60
									1928887.97	550056.73	121.30	119.50
									1928839.64	550092.74	122.80	121.00
									1928897.45	550126.86	120.70	118.90
									1928923.98	550076.16	121.60	119.50
									1928953.36	550060.99	122.20	120.40
									1928985.11	550091.32	122.20	120.40
									1928944.21	550155.20	120.70	118.90
									1928966.03	550176.45	121.30	119.50
									1929012.85	550156.14	121.30	119.50
									1929076.98	550156.33	121.90	120.10
									1929125.49	550175.70	122.20	120.40
									1929116.39	550204.05	122.20	120.40
									1929162.66	550219.73	122.20	120.40
									1929173.25	550191.67	122.20	120.40
									1929315.88	550236.68	124.40	122.60
									1929339.10	550265.11	124.40	122.60
									1929333.13	550326.61	124.66	122.86
									1929307.76	550410.79	125.30	123.50
									1929260.59	550505.71	131.10	129.30
									1929199.67	550571.15	132.60	130.80
									1929270.33	550639.09	128.93	127.13
									1929288.57	550607.81	128.93	127.13
									1929325.30	550580.56	128.30	126.50
									1929365.10	550496.45	128.30	126.50
									1929399.93	550447.41	128.90	127.10
									1929452.53	550424.19	129.10	129.10
									1929430.73	550397.18	128.90	127.10
									1929431.29	550375.18	128.90	127.10
									1929458.19	550361.32	129.55	127.75
									1929449.78	550348.05	129.80	128.00
									1929470.90	550324.17	130.76	128.96
									1929470.90	550310.25	131.40	129.60
									1929489.84	550298.12	131.40	129.60
									1929499.67	550298.17	131.40	129.60
									1929509.82	550295.87	131.40	129.60
									1929518.59	550285.68	131.40	129.60
									1929538.66	550282.40	131.40	129.60
									1929543.66	550297.47	131.70	129.90
									1929587.29	550297.49	131.70	129.90
									1929629.70	550312.65	132.00	130.20
									1929647.70	550336.29	132.00	130.20
									1929649.96	550355.19	132.30	130.50
									1929709.91	550355.19	133.50	131.70
									1929725.78	550362.18	133.80	132.00
									1929740.71	550384.69	134.40	132.60
									1929745.19	550432.90	136.80	135.00
									1929864.13	550459.91	140.20	138.40
									1929856.31	550488.81	140.20	138.40
									1929932.84	550512.03	140.50	138.70
									1929937.10	550527.91	141.10	139.30
									1929980.36	550554.80	142.04	140.24
									1929995.59	550554.61	142.34	140.54
									1929995.21	550571.35	142.65	140.85
									1929989.15	550588.70	143.30	141.50
									1930044.83	550602.58	143.60	141.80
									1930058.56	550599.45	143.90	142.10
									1930066.62	550616.31	143.90	142.10

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1930131.70	550656.91	145.10	143.30	
										1930118.26	550676.32	145.70	143.90	
										1930141.85	550681.09	146.30	144.50	
										1930147.37	550691.69	146.30	144.50	
										1930139.47	550727.05	146.60	144.89	
										1930165.65	550739.96	146.90	145.10	
										1930233.72	550800.26	146.90	145.10	
										1930284.39	550792.50	150.58	148.78	
										1930339.13	550825.91	151.80	150.00	
										1930400.03	550889.80	154.80	153.00	
										1930451.21	550981.73	158.80	157.00	
										1930471.82	550966.21	158.80	157.00	
										1930539.23	550966.45	158.80	157.00	
										1930539.14	550983.00	159.40	157.60	
										1930562.05	550982.92	160.03	158.23	
										1930627.87	551054.01	161.90	160.10	
										1930663.04	551053.82	161.90	160.10	
										1930684.86	551094.45	162.77	160.97	
										1930709.44	551106.20	162.77	160.97	
										1930722.39	551106.24	163.10	161.30	
										1930739.11	551134.83	163.10	161.30	
										1930767.78	551152.36	163.10	161.30	
										1930777.50	551178.19	162.80	161.00	
										1930761.15	551210.41	162.80	161.00	
										1930771.68	551235.80	161.90	160.10	
										1930748.99	551271.63	161.90	160.10	
										1930749.34	551328.97	161.30	159.50	
										1930734.89	551383.23	160.30	158.50	
										1930735.27	551419.72	159.70	157.90	
										1930724.73	551453.57	158.80	157.00	
										1930617.86	551481.04	158.50	156.70	
										1931363.09	551335.42	165.50	163.70	
										1931241.88	551251.23	162.50	160.70	
										1931209.63	551222.57	159.40	157.60	
										1931179.18	551167.64	157.30	155.50	
										1931162.46	551167.64	155.80	154.00	
										1931123.65	551150.92	153.60	151.80	
										1931109.32	551130.02	153.60	151.80	
										1931003.04	551066.73	151.80	150.00	
										1931002.44	551016.57	150.60	148.80	
										1931034.91	550961.13	150.60	148.80	
										1931030.17	550955.20	150.30	148.50	
										1931038.46	550929.61	150.80	149.00	
										1931045.57	550925.82	151.20	149.40	
										1931050.55	550912.08	152.40	150.60	
										1931047.94	550907.10	153.00	151.20	
										1931057.18	550881.27	152.70	150.90	
										1931069.74	550860.89	152.10	150.30	
										1931083.09	550809.93	152.10	150.30	
										1931095.13	550762.53	153.00	151.20	
										1931108.48	550748.80	153.30	151.20	
										1931149.29	550739.02	153.90	152.10	
										1931228.11	550762.91	154.80	153.00	
										1931240.39	550725.79	155.80	154.00	
										1931132.33	550683.13	152.40	150.60	
										1931114.32	550657.07	152.40	150.60	
										1931114.32	550632.42	152.40	150.60	
										1931119.59	550598.19	153.90	152.10	
										1931137.13	550478.77	155.50	153.70	
										1931138.72	550469.55	155.80	153.70	
										1931138.72	550408.99	156.10	154.30	
										1931144.89	550404.25	156.10	154.30	
										1931144.96	550393.58	156.10	154.30	

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40
											1929661.36	549756.76	135.70	135.70
											1929661.06	549743.92	135.70	135.70
											1929699.43	549609.81	137.20	137.20
											1929547.35	549655.29	131.10	131.10
											1929570.34	549664.55	131.10	131.10
											1929468.77	549808.26	133.50	133.50

Name	M.	ID	Absorption	Z-Ext.	Cantilever	Height		Coordinates							
						left right		horz.	vert.	Begin	End	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
								1929429.64	549840.61	134.15	134.15				
								1929360.99	549959.11	135.70	135.70				
								1929344.87	549971.67	135.70	135.70				
								1929295.31	549971.08	136.00	136.00				
								1929242.16	549965.70	136.30	136.30				
								1929189.61	549949.58	136.30	136.30				
								1929166.91	549935.24	134.50	134.50				
								1929166.91	549921.51	134.50	134.50				
								1929146.01	549915.54	134.50	134.50				
								1929120.33	549879.11	134.20	134.20				
								1929095.85	549910.76	134.20	134.20				
								1929072.56	549896.01	134.20	134.20				
								1929069.19	549884.45	134.20	134.20				
								1929060.60	549884.45	134.20	134.20				
								1929055.94	549876.37	134.20	134.20				
								1929047.56	549876.46	134.20	134.20				
								1929026.58	549855.40	132.60	132.60				
								1928984.07	549792.20	121.95	121.95				
								1928950.40	549768.60	118.90	118.90				
								1928928.11	549746.49	115.85	115.85				
								1928910.62	549730.32	109.70	109.70				
								1928845.80	549663.13	100.60	100.60				
								1928868.49	549639.84	103.65	103.65				
								1929509.51	549659.60	132.00	132.00				
								1929443.86	549678.98	135.70	135.70				
								1929419.40	549704.37	138.00	138.00				
								1929283.87	549877.62	141.15	141.15				
								1929266.39	549877.80	141.15	141.15				
								1929246.38	549867.50	141.15	141.15				
								1929233.54	549874.21	141.15	141.15				
								1929193.53	549845.10	141.50	141.50				
								1929167.70	549889.59	134.50	134.50				
								1929895.04	549109.28	128.00	128.00				
								1929912.10	549009.74	128.00	128.00				
								1929910.68	548918.73	127.70	127.70				
								1929899.02	548837.46	121.95	121.95				
								1929924.98	548809.62	120.40	120.40				
								1929935.64	548787.58	118.90	118.90				
								1929947.97	548756.77	116.50	116.50				
								1930907.43	551027.87	141.50	141.50				
								1930858.45	550995.62	140.59	140.59				
								1930812.46	550978.29	139.83	139.83				
								1930726.45	550931.11	138.30	138.30				
								1930605.20	550840.32	135.95	135.95				
								1930632.68	550793.13	135.10	135.10				
								1930999.12	550692.72	144.80	144.80				
								1931031.36	550692.72	144.68	144.68				
								1931022.82	550748.19	144.46	144.46				
								1931007.18	550805.08	144.24	144.24				
								1930940.28	550944.25	143.65	143.65				
								1930940.88	550960.38	143.59	143.59				
								1930907.43	551027.87	143.30	143.30				

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates							
						Begin	(m)	x	(m)	y	(m)	z	(m)	Ground	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2025 wo Project_111513.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night																

Source	Name	M.	ID	1		2		3		4		5				
				Day	Night											
Olympic Parkway Santa Victoria to Heritage Road				45.0		47.2		53.8	-83.6	51.3	-86.2	51.0	-86.7	52.8		
Heritage Road north of Olympic Parkway				34.1		34.4		37.3		39.5		41.1		41.2		
Heritage Road Santa Liza Avenue to Main Street				38.1		38.4		38.2		34.8		28.7		26.4		
La Media Road north of Olympic Parkway																
La Media Road Olympic Parkway to Santa Venetia																
Olympic Parkway Heritage Road to Santa Venetia Street				36.8		39.4		38.8		40.2		41.7		42.7		
Olympic Parkway east of La Media Road																
La Media Road Santa Venetia to Birch																
La Media Road south of Birch																
Olympic Parkway Brandywine to Santa Victoria				51.1	-87.6	51.4	-87.1	41.9		39.3		36.2		37.1		
Olympic Parkway Santa Venetia Street to La Media Road																
Heritage Road Olympic Parkway to Santa Victoria Road				33.0		33.8		32.9		34.9		38.3		40.7		
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.4		38.0		36.8		29.3		28.8		25.7		

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra	(km/h)	
			(dB)	(dB)	(dB)	(dB)	(dB)	(km/h)		

Zugklassen

Parkplätze

Name	M.	ID	Type	Lwa			Event Data			Penalty Type			Penalty Surface		A	
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Day	Special	Night	Kpa	Type	Kstro
				(dBA)	(dBA)	(dBA)				(dB)			(dB)			

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data			
			Day	Evening	Night	DTV	Str.class.	Day	Evening	Night	Day
			(dBA)	(dBA)	(dBA)						Ev
Olympic Parkway Santa Victoria to Heritage Road			69.6	0.0	0.0			2169.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.2	0.0	0.0			4784.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			69.9	0.0	0.0			4485.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			68.7	0.0	0.0			2460.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			70.7	0.0	0.0			3949.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			73.4	0.0	0.0			5182.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			71.2	0.0	0.0			3139.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			70.5	0.0	0.0			3762.0	0.0	0.0	4.0
La Media Road south of Birch			69.2	0.0	0.0			2775.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			70.9	0.0	0.0			2957.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			72.4	0.0	0.0			4172.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			68.1	0.0	0.0			2957.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.1	0.0	0.0			3770.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates			
			Day	Evening	Night	Begin	X	Y	Z
			(m)	(m)	(m)	(m)	(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	
1			52.6	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			53.4	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			54.5	-83.1	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			52.3	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			52.2	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			53.8	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			56.3	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			59.0	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			61.5	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			61.9	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			56.4	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			60.2	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			61.1	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			58.9	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			54.8	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			55.6	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			58.4	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53
18			60.9	-79.1	0.0	0.0	x	Total		1.50	r	1930757.50	551149.45	164.58
19			58.7	-80.0	0.0	0.0	x	Total		1.50	r	1930761.84	551237.68	163.69
20			59.8	-77.5	0.0	0.0	x	Total		1.50	r	1930725.07	551431.57	160.91
21			63.3	-76.3	0.0	0.0	x	Total		1.50	r	1931138.01	551153.15	156.13
22			63.2	-76.3	0.0	0.0	x	Total		1.50	r	1931008.44	551062.29	153.21
23			63.1	-76.3	0.0	0.0	x	Total		1.50	r	1931036.25	550950.55	152.18

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
24			61.1	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			62.9	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			64.9	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			64.1	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			63.2	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			63.8	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			63.1	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			60.7	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			58.9	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			54.4	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			49.7	-88.1	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			50.2	-88.2	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			48.9	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			48.8	-89.9	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			46.9	-92.4	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			62.9	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			59.9	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			65.4	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			65.1	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			65.0	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			56.2	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			57.3	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			53.9	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			57.8	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			53.6	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			52.3	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			55.7	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			57.7	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			53.5	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			56.3	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			53.9	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			58.7	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			51.1	-89.3	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			58.1	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			56.9	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			51.0	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.8	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			57.6	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			50.3	-88.5	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			56.9	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			58.0	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			49.5	-88.7	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			57.7	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			60.3	-77.1	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			50.8	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.3	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			48.5	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			56.9	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			56.3	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			53.7	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.1	-85.8	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.6	-86.6	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			48.1	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			53.1	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			52.3	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			50.1	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			53.0	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55
V2-1-2			66.3	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			66.8	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			66.3	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			61.3	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			64.1	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			51.7	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)	
V2-7-2			49.3	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			52.2	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			48.2	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			46.9	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			55.3	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			55.6	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			54.4	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			56.7	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			53.0	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			54.7	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			57.2	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			59.1	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			54.6	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			58.5	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			55.1	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			59.7	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			52.9	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			59.4	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			59.0	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			51.3	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.7	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.2	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.0	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.0	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			58.5	-78.9	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.1	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			57.7	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			60.9	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			51.4	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			49.9	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			48.3	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.0	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			56.4	-81.9	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			53.9	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.2	-86.3	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.3	-86.7	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			48.8	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			55.0	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			54.0	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			54.1	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			50.5	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			59.9	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height			Coordinates			Ground
	Begin	End		x	y	z	
	(m)	(m)		(m)	(m)	(m)	(m)

Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Parkplätze

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Straßen

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		

Name	Height		Coordinates				Dist	LSlope
	Begin		x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.57	550177.71	108.53	108.53		
			1929473.82	549975.56	109.75	109.75		
			1929570.86	549791.67	117.38	117.38		
			1929614.28	549712.66	126.50	126.50		
			1929654.62	549618.70	129.60	129.60		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929668.86	549547.52	130.50	130.50		
			1929681.35	549383.31	131.10	131.10		
			1929682.85	549124.18	130.80	130.80		

Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates					
					left	right		horz.	vert.	Begin	End	x	y	z
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1928342.12	549672.82	123.45	121.65	
										1928455.32	549718.14	121.92	120.12	
										1928444.98	549751.05	122.53	120.73	
										1928479.58	549781.14	122.20	120.40	
										1928499.33	549757.44	122.20	120.40	
										1928581.69	549825.52	121.30	119.50	
										1928701.29	549869.52	120.40	118.60	
										1928686.60	549897.95	120.10	118.30	
										1928733.42	549932.17	121.00	119.20	

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1928757.30	549910.55	121.00	119.20
									1928799.05	549979.75	122.80	121.00
									1928771.40	549994.42	122.80	121.00
									1928794.86	550041.80	122.20	120.40
									1928872.81	549994.42	122.50	120.70
									1928887.97	550020.00	123.40	121.60
									1928887.97	550056.73	121.30	119.50
									1928839.64	550092.74	122.80	121.00
									1928897.45	550126.86	120.70	118.90
									1928923.98	550076.16	121.60	119.50
									1928953.36	550060.99	122.20	120.40
									1928985.11	550091.32	122.20	120.40
									1928944.21	550155.20	120.70	118.90
									1928966.03	550176.45	121.30	119.50
									1929012.85	550156.14	121.30	119.50
									1929076.98	550156.33	121.90	120.10
									1929125.49	550175.70	122.20	120.40
									1929116.39	550204.05	122.20	120.40
									1929162.66	550219.73	122.20	120.40
									1929173.25	550191.67	122.20	120.40
									1929315.88	550236.68	124.40	122.60
									1929339.10	550265.11	124.40	122.60
									1929333.13	550326.61	124.66	122.86
									1929307.76	550410.79	125.30	123.50
									1929260.59	550505.71	131.10	129.30
									1929199.67	550571.15	132.60	130.80
									1929270.33	550639.09	128.93	127.13
									1929288.57	550607.81	128.93	127.13
									1929325.30	550580.56	128.30	126.50
									1929365.10	550496.45	128.30	126.50
									1929399.93	550447.41	128.90	127.10
									1929452.53	550424.19	129.10	129.10
									1929430.73	550397.18	128.90	127.10
									1929431.29	550375.18	128.90	127.10
									1929458.19	550361.32	129.55	127.75
									1929449.78	550348.05	129.80	128.00
									1929470.90	550324.17	130.76	128.96
									1929470.90	550310.25	131.40	129.60
									1929489.84	550298.12	131.40	129.60
									1929499.67	550298.17	131.40	129.60
									1929509.82	550295.87	131.40	129.60
									1929518.59	550285.68	131.40	129.60
									1929538.66	550282.40	131.40	129.60
									1929543.66	550297.47	131.70	129.90
									1929587.29	550297.49	131.70	129.90
									1929629.70	550312.65	132.00	130.20
									1929647.70	550336.29	132.00	130.20
									1929649.96	550355.19	132.30	130.50
									1929709.91	550355.19	133.50	131.70
									1929725.78	550362.18	133.80	132.00
									1929740.71	550384.69	134.40	132.60
									1929745.19	550432.90	136.80	135.00
									1929864.13	550459.91	140.20	138.40
									1929856.31	550488.81	140.20	138.40
									1929932.84	550512.03	140.50	138.70
									1929937.10	550527.91	141.10	139.30
									1929980.36	550554.80	142.04	140.24
									1929995.59	550554.61	142.34	140.54
									1929995.21	550571.35	142.65	140.85
									1929989.15	550588.70	143.30	141.50
									1930044.83	550602.58	143.60	141.80
									1930058.56	550599.45	143.90	142.10
									1930066.62	550616.31	143.90	142.10

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40
											1929661.36	549756.76	135.70	135.70
											1929661.06	549743.92	135.70	135.70
											1929699.43	549609.81	137.20	137.20
											1929547.35	549655.29	131.10	131.10
											1929570.34	549664.55	131.10	131.10
											1929468.77	549808.26	133.50	133.50

Name	M.	ID	Absorption	Z-Ext.	Cantilever	Height		Coordinates							
						left right		horz.	vert.	Begin	End	x	y	z	Ground
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
								1929429.64	549840.61	134.15	134.15				
								1929360.99	549959.11	135.70	135.70				
								1929344.87	549971.67	135.70	135.70				
								1929295.31	549971.08	136.00	136.00				
								1929242.16	549965.70	136.30	136.30				
								1929189.61	549949.58	136.30	136.30				
								1929166.91	549935.24	134.50	134.50				
								1929166.91	549921.51	134.50	134.50				
								1929146.01	549915.54	134.50	134.50				
								1929120.33	549879.11	134.20	134.20				
								1929095.85	549910.76	134.20	134.20				
								1929072.56	549896.01	134.20	134.20				
								1929069.19	549884.45	134.20	134.20				
								1929060.60	549884.45	134.20	134.20				
								1929055.94	549876.37	134.20	134.20				
								1929047.56	549876.46	134.20	134.20				
								1929026.58	549855.40	132.60	132.60				
								1928984.07	549792.20	121.95	121.95				
								1928950.40	549768.60	118.90	118.90				
								1928928.11	549746.49	115.85	115.85				
								1928910.62	549730.32	109.70	109.70				
								1928845.80	549663.13	100.60	100.60				
								1928868.49	549639.84	103.65	103.65				
								1929509.51	549659.60	132.00	132.00				
								1929443.86	549678.98	135.70	135.70				
								1929419.40	549704.37	138.00	138.00				
								1929283.87	549877.62	141.15	141.15				
								1929266.39	549877.80	141.15	141.15				
								1929246.38	549867.50	141.15	141.15				
								1929233.54	549874.21	141.15	141.15				
								1929193.53	549845.10	141.50	141.50				
								1929167.70	549889.59	134.50	134.50				
								1929895.04	549109.28	128.00	128.00				
								1929912.10	549009.74	128.00	128.00				
								1929910.68	548918.73	127.70	127.70				
								1929899.02	548837.46	121.95	121.95				
								1929924.98	548809.62	120.40	120.40				
								1929935.64	548787.58	118.90	118.90				
								1929947.97	548756.77	116.50	116.50				
								1930907.43	551027.87	141.50	141.50				
								1930858.45	550995.62	140.59	140.59				
								1930812.46	550978.29	139.83	139.83				
								1930726.45	550931.11	138.30	138.30				
								1930605.20	550840.32	135.95	135.95				
								1930632.68	550793.13	135.10	135.10				
								1930999.12	550692.72	144.80	144.80				
								1931031.36	550692.72	144.68	144.68				
								1931022.82	550748.19	144.46	144.46				
								1931007.18	550805.08	144.24	144.24				
								1930940.28	550944.25	143.65	143.65				
								1930940.88	550960.38	143.59	143.59				
								1930907.43	551027.87	143.30	143.30				

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates							
						Begin	(m)	x	(m)	y	(m)	z	(m)	Ground	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2025 w Project_111513.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5							
				Day	Night	Day	Night	Day	N										
Olympic Parkway Santa Victoria to Heritage Road				45.1		47.4		53.9	-83.6	51.5	-86.2	51.1	-86.7	52.9					
Heritage Road north of Olympic Parkway				34.4		34.7		37.6		39.8		41.4		41.6					
Heritage Road Santa Liza Avenue to Main Street				38.4		38.7		38.5		35.1		29.0		26.6					
La Media Road north of Olympic Parkway																			
La Media Road Olympic Parkway to Santa Venetia																			
Olympic Parkway Heritage Road to Santa Venetia Street				36.8		39.4		38.9		40.2		41.7		42.7					
Olympic Parkway east of La Media Road																			
La Media Road Santa Venetia to Birch																			
La Media Road south of Birch																			
Olympic Parkway Brandywine to Santa Victoria				51.5	-87.6	51.8	-87.1	42.4		39.7		36.7		37.5					
Olympic Parkway Santa Venetia Street to La Media Road																			
Heritage Road Olympic Parkway to Santa Victoria Road				33.4		34.3		33.3		35.3		38.7		41.1					
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.8		38.4		37.1		29.7		29.1		26.1					

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra	(dB)	(km/h)

Zugklassen

Name	M.	ID	Lm,E		Train Class								Add.Level		Vmax		
			Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)	Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(km/h)

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)			
	(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	Day	Night		

Parkplätze

Name	M.	ID	Type	Lwa			Event Data					Penalty Type		Penalty Surface		A
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Kpa	Type	Kstro	Surface		
				(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)	

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data				
			Day	Evening	Night	DTV	Str.class.	M	Day	Evening	Night	Ev.
			(dBA)	(dBA)	(dBA)							
Olympic Parkway Santa Victoria to Heritage Road			69.7	0.0	0.0	2240.0		0.0	0.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.5	0.0	0.0	5140.0		0.0	0.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			70.2	0.0	0.0	4770.0		0.0	0.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			68.9	0.0	0.0	2620.0		0.0	0.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			71.0	0.0	0.0	4180.0		0.0	0.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			73.4	0.0	0.0	5200.0		0.0	0.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			71.3	0.0	0.0	3210.0		0.0	0.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			70.7	0.0	0.0	3940.0		0.0	0.0	0.0	0.0	4.0
La Media Road south of Birch			69.4	0.0	0.0	2900.0		0.0	0.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			71.4	0.0	0.0	3260.0		0.0	0.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			72.4	0.0	0.0	4190.0		0.0	0.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			68.5	0.0	0.0	3260.0		0.0	0.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.5	0.0	0.0	4090.0		0.0	0.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates		
			Day	Evening	Night	Begin	X	Y
			(m)				(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)								
1			52.9	-85.9	0.0	0.0	x	Total	1.50	r	1928513.17	549777.36	123.50	
2			53.7	-85.0	0.0	0.0	x	Total	1.50	r	1928611.46	549842.84	122.50	
3			54.6	-83.1	0.0	0.0	x	Total	1.50	r	1928769.01	549940.12	123.18	
4			52.5	-85.6	0.0	0.0	x	Total	1.50	r	1928880.08	550025.05	124.62	
5			52.4	-85.9	0.0	0.0	x	Total	1.50	r	1928973.19	550093.88	123.50	
6			54.0	-83.9	0.0	0.0	x	Total	1.50	r	1929067.19	550164.17	123.30	
7			56.5	-81.6	0.0	0.0	x	Total	1.50	r	1929235.11	550218.63	124.69	
8			59.2	-79.6	0.0	0.0	x	Total	1.50	r	1929322.19	550253.72	125.94	
9			61.8	-77.4	0.0	0.0	x	Total	1.50	r	1929310.21	550383.47	126.55	
10			62.2	-76.7	0.0	0.0	x	Total	1.50	r	1929388.82	550470.73	130.10	
11			56.7	-82.0	0.0	0.0	x	Total	1.50	r	1929467.28	550339.53	131.76	
12			60.3	-80.0	0.0	0.0	x	Total	1.50	r	1929526.05	550289.39	132.99	
13			61.1	-80.2	0.0	0.0	x	Total	1.50	r	1929634.25	550324.90	133.58	
14			58.9	-82.2	0.0	0.0	x	Total	1.50	r	1929853.63	550462.25	141.43	
15			54.9	-86.6	0.0	0.0	x	Total	1.50	r	1930098.56	550646.91	146.31	
16			55.7	-85.0	0.0	0.0	x	Total	1.50	r	1930499.35	550973.62	160.55	
17			58.5	-81.7	0.0	0.0	x	Total	1.50	r	1930655.50	551060.11	163.53	

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
18			61.0	-79.1	0.0	0.0	x		Total	1.50	r	1930757.50	551149.45	164.58
19			58.9	-80.0	0.0	0.0	x		Total	1.50	r	1930761.84	551237.68	163.69
20			60.1	-77.5	0.0	0.0	x		Total	1.50	r	1930725.07	551431.57	160.91
21			63.4	-76.3	0.0	0.0	x		Total	1.50	r	1931138.01	551153.15	156.13
22			63.3	-76.3	0.0	0.0	x		Total	1.50	r	1931008.44	551062.29	153.21
23			63.4	-76.3	0.0	0.0	x		Total	1.50	r	1931036.25	550950.55	152.18
24			61.3	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			63.1	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			65.1	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			64.3	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			63.4	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			64.0	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			63.3	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			60.9	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			59.1	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			54.6	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			49.9	-88.1	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			50.3	-88.2	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			49.1	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			49.0	-89.9	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			47.1	-92.4	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			63.2	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			60.1	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			65.5	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			65.1	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			65.1	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			56.3	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			57.3	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			53.9	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			57.9	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			53.6	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			52.3	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			55.7	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			57.8	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			53.6	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			56.3	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			54.0	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			58.7	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			51.3	-89.3	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			58.1	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			56.9	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			51.1	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.9	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			57.9	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			50.6	-88.5	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			57.3	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			58.4	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			49.8	-88.7	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			58.1	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			60.7	-77.1	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.1	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.6	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			48.8	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			57.3	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			56.7	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			54.0	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.4	-85.7	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.9	-86.6	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			48.4	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			53.2	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			52.5	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			50.4	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			53.3	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day	Night	Day	Night	Type	Auto	Noise Type		(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)								
V2-1-2			66.4	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			66.8	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			66.3	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			61.5	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			64.4	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			51.9	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10
V2-7-2			49.5	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			52.4	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			48.4	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			47.1	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			55.4	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			55.6	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			54.4	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			56.7	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			53.0	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			54.7	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			57.2	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			59.1	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			54.7	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			58.5	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			55.2	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			59.7	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			53.0	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			59.4	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			59.0	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			51.4	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.9	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.4	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.4	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.3	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			58.9	-78.9	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.4	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			58.1	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			61.3	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			51.7	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.2	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			48.5	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.3	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			56.8	-81.9	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.2	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.5	-86.3	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.6	-86.6	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			49.1	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			55.2	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			54.2	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			54.4	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			50.8	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			60.1	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		

Name	Height		Coordinates				Dist	LSlope
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.57	550177.71	108.53	108.53		
			1929473.82	549975.56	109.75	109.75		
			1929570.86	549791.67	117.38	117.38		
			1929614.28	549712.66	126.50	126.50		
			1929654.62	549618.70	129.60	129.60		
			1929668.86	549547.52	130.50	130.50		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929668.19	549547.73	130.50	130.50		
			1929681.35	549383.31	131.10	131.10		
			1929682.85	549124.18	130.80	130.80		

Geometrie Schienen

Geometric Constrictions						
Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Geometric Schema												
Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
			left	right	horz.	vert.	Begin	End	x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
									1928342.12	549672.82	123.45	121.65
									1928455.32	549718.14	121.92	120.12
									1928444.98	549751.05	122.53	120.73

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1928479.58	549781.14	122.20	120.40
											1928499.33	549757.44	122.20	120.40
											1928581.69	549825.52	121.30	119.50
											1928701.29	549869.52	120.40	118.60
											1928686.60	549897.95	120.10	118.30
											1928733.42	549932.17	121.00	119.20
											1928757.30	549910.55	121.00	119.20
											1928799.05	549979.75	122.80	121.00
											1928771.40	549994.42	122.80	121.00
											1928794.86	550041.80	122.20	120.40
											1928872.81	549994.42	122.50	120.70
											1928887.97	550020.00	123.40	121.60
											1928887.97	550056.73	121.30	119.50
											1928839.64	550092.74	122.80	121.00
											1928897.45	550126.86	120.70	118.90
											1928923.98	550076.16	121.60	119.50
											1928953.36	550060.99	122.20	120.40
											1928985.11	550091.32	122.20	120.40
											1928944.21	550155.20	120.70	118.90
											1928966.03	550176.45	121.30	119.50
											1929012.85	550156.14	121.30	119.50
											1929076.98	550156.33	121.90	120.10
											1929125.49	550175.70	122.20	120.40
											1929116.39	550204.05	122.20	120.40
											1929162.66	550219.73	122.20	120.40
											1929173.25	550191.67	122.20	120.40
											1929315.88	550236.68	124.40	122.60
											1929339.10	550265.11	124.40	122.60
											1929333.13	550326.61	124.66	122.86
											1929307.76	550410.79	125.30	123.50
											1929260.59	550505.71	131.10	129.30
											1929199.67	550571.15	132.60	130.80
											1929270.33	550639.09	128.93	127.13
											1929288.57	550607.81	128.93	127.13
											1929325.30	550580.56	128.30	126.50
											1929365.10	550496.45	128.30	126.50
											1929399.93	550447.41	128.90	127.10
											1929452.53	550424.19	129.10	129.10
											1929430.73	550397.18	128.90	127.10
											1929431.29	550375.18	128.90	127.10
											1929458.19	550361.32	129.55	127.75
											1929449.78	550348.05	129.80	128.00
											1929470.90	550324.17	130.76	128.96
											1929470.90	550310.25	131.40	129.60
											1929489.84	550298.12	131.40	129.60
											1929499.67	550298.17	131.40	129.60
											1929509.82	550295.87	131.40	129.60
											1929518.59	550285.68	131.40	129.60
											1929538.66	550282.40	131.40	129.60
											1929543.66	550297.47	131.70	129.90
											1929587.29	550297.49	131.70	129.90
											1929629.70	550312.65	132.00	130.20
											1929647.70	550336.29	132.00	130.20
											1929649.96	550355.19	132.30	130.50
											1929709.91	550355.19	133.50	131.70
											1929725.78	550362.18	133.80	132.00
											1929740.71	550384.69	134.40	132.60
											1929745.19	550432.90	136.80	135.00
											1929864.13	550459.91	140.20	138.40
											1929856.31	550488.81	140.20	138.40
											1929932.84	550512.03	140.50	138.70
											1929937.10	550527.91	141.10	139.30
											1929980.36	550554.80	142.04	140.24

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1929995.59	550554.61	142.34	140.54
											1929995.21	550571.35	142.65	140.85
											1929989.15	550588.70	143.30	141.50
											1930044.83	550602.58	143.60	141.80
											1930058.56	550599.45	143.90	142.10
											1930066.62	550616.31	143.90	142.10
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin	End	x	y	z	Ground		
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
									1929661.36	549756.76	135.70	135.70		
									1929661.06	549743.92	135.70	135.70		
									1929699.43	549609.81	137.20	137.20		
									1929547.35	549655.29	131.10	131.10		
									1929570.34	549664.55	131.10	131.10		
									1929468.77	549808.26	133.50	133.50		
									1929429.64	549840.61	134.15	134.15		
									1929360.99	549959.11	135.70	135.70		
									1929344.87	549971.67	135.70	135.70		
									1929295.31	549971.08	136.00	136.00		
									1929242.16	549965.70	136.30	136.30		
									1929189.61	549949.58	136.30	136.30		
									1929166.91	549935.24	134.50	134.50		
									1929166.91	549921.51	134.50	134.50		
									1929146.01	549915.54	134.50	134.50		
									1929120.33	549879.11	134.20	134.20		
									1929095.85	549910.76	134.20	134.20		
									1929072.56	549896.01	134.20	134.20		
									1929069.19	549884.45	134.20	134.20		
									1929060.60	549884.45	134.20	134.20		
									1929055.94	549876.37	134.20	134.20		
									1929047.56	549876.46	134.20	134.20		
									1929026.58	549855.40	132.60	132.60		
									1928984.07	549792.20	121.95	121.95		
									1928950.40	549768.60	118.90	118.90		
									1928928.11	549746.49	115.85	115.85		
									1928910.62	549730.32	109.70	109.70		
									1928845.80	549663.13	100.60	100.60		
									1928868.49	549639.84	103.65	103.65		
									1929509.51	549659.60	132.00	132.00		
									1929443.86	549678.98	135.70	135.70		
									1929419.40	549704.37	138.00	138.00		
									1929283.87	549877.62	141.15	141.15		
									1929266.39	549877.80	141.15	141.15		
									1929246.38	549867.50	141.15	141.15		
									1929233.54	549874.21	141.15	141.15		
									1929193.53	549845.10	141.50	141.50		
									1929167.70	549889.59	134.50	134.50		
									1929895.04	549109.28	128.00	128.00		
									1929912.10	549009.74	128.00	128.00		
									1929910.68	548918.73	127.70	127.70		
									1929899.02	548837.46	121.95	121.95		
									1929924.98	548809.62	120.40	120.40		
									1929935.64	548787.58	118.90	118.90		
									1929947.97	548756.77	116.50	116.50		
									1930907.43	551027.87	141.50	141.50		
									1930858.45	550995.62	140.59	140.59		
									1930812.46	550978.29	139.83	139.83		
									1930726.45	550931.11	138.30	138.30		
									1930605.20	550840.32	135.95	135.95		
									1930632.68	550793.13	135.10	135.10		
									1930999.12	550692.72	144.80	144.80		
									1931031.36	550692.72	144.68	144.68		
									1931022.82	550748.19	144.46	144.46		
									1931007.18	550805.08	144.24	144.24		
									1930940.28	550944.25	143.65	143.65		
									1930940.88	550960.38	143.59	143.59		
									1930907.43	551027.87	143.30	143.30		

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin	x	y	z	Ground
							(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates			
				Begin	End	x	y	z	
				(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2025 w Project_w walls 111713.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5							
				Day	Night	Day	Night	Day	N										
Olympic Parkway Santa Victoria to Heritage Road				45.1		47.4		53.9	-83.6	51.5	-86.2	51.1	-86.7	52.9					
Heritage Road north of Olympic Parkway				34.4		34.7		37.6		39.8		41.4		41.6					
Heritage Road Santa Liza Avenue to Main Street				38.4		39.0		38.7		34.3		30.9		30.3					
La Media Road north of Olympic Parkway																			
La Media Road Olympic Parkway to Santa Venetia																			
Olympic Parkway Heritage Road to Santa Venetia Street				36.8		39.4		38.9		40.2		41.7		42.7					
Olympic Parkway east of La Media Road																			
La Media Road Santa Venetia to Birch																			
La Media Road south of Birch																			
Olympic Parkway Brandywine to Santa Victoria				51.5	-87.6	51.8	-87.1	42.4		39.7		36.7		37.5					
Olympic Parkway Santa Venetia Street to La Media Road																			
Heritage Road Olympic Parkway to Santa Victoria Road				33.4		34.6		34.1		36.3		39.1		41.1					
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.8		38.8		36.8		31.5		32.2		30.0					

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra		
			(dB)	(dB)	(dB)	(dB)	(dB)	(km/h)		

Zugklassen

Parkplätze

Name	M.	ID	Type	Lwa			Event Data			Penalty Type			Penalty Surface		A	
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Day	Special	Night	Kpa	Type	
				(dBA)	(dBA)	(dBA)				(dB)			(dB)			

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data			
			Day	Evening	Night	DTV	Str.class.	Day	Evening	Night	Ev
			(dBA)	(dBA)	(dBA)						
Olympic Parkway Santa Victoria to Heritage Road			69.7	0.0	0.0			2240.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.5	0.0	0.0			5140.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			70.2	0.0	0.0			4770.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			68.9	0.0	0.0			2620.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			71.0	0.0	0.0			4180.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			73.4	0.0	0.0			5200.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			71.3	0.0	0.0			3210.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			70.7	0.0	0.0			3940.0	0.0	0.0	4.0
La Media Road south of Birch			69.4	0.0	0.0			2900.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			71.4	0.0	0.0			3260.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			72.4	0.0	0.0			4190.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			68.5	0.0	0.0			3260.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.5	0.0	0.0			4090.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates			
			Day	Evening	Night	Begin	X	Y	Z
			(m)	(m)	(m)	(m)	(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
1			52.9	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			53.7	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			54.6	-83.1	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			52.5	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			52.4	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			54.0	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			56.5	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			59.2	-79.5	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			61.8	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			62.2	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			56.7	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			60.2	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			61.1	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			58.9	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			54.8	-86.7	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			55.5	-85.1	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			58.0	-82.1	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53
18			60.9	-79.2	0.0	0.0	x	Total		1.50	r	1930757.50	551149.45	164.58
19			58.9	-80.0	0.0	0.0	x	Total		1.50	r	1930761.84	551237.68	163.69
20			60.1	-77.5	0.0	0.0	x	Total		1.50	r	1930725.07	551431.57	160.91
21			63.4	-76.3	0.0	0.0	x	Total		1.50	r	1931138.01	551153.15	156.13
22			63.3	-76.3	0.0	0.0	x	Total		1.50	r	1931008.44	551062.29	153.21
23			63.1	-76.4	0.0	0.0	x	Total		1.50	r	1931036.25	550950.55	152.18

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
24			61.1	-77.9	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			63.1	-76.4	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			65.0	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			64.3	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			63.4	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			63.9	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			63.2	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			60.8	-77.2	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			59.0	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			54.6	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			49.7	-88.3	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			49.8	-89.0	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			48.8	-89.9	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			48.9	-90.3	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			46.8	-92.6	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			59.9	-78.6	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			56.5	-83.3	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			63.5	-76.8	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			63.2	-76.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			62.8	-77.0	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			55.7	-86.7	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			56.9	-85.6	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			48.3	-93.5	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			58.3	-84.6	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			53.4	-87.3	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			51.2	-90.6	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			54.9	-85.9	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			57.7	-83.4	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			51.8	-89.1	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			53.2	-87.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			51.7	-89.2	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			58.7	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			50.5	-90.1	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			58.0	-82.9	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			55.3	-84.9	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			49.8	-90.7	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.4	-81.3	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			56.2	-82.4	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			49.1	-90.4	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			53.5	-85.0	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			58.4	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			48.3	-90.8	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			55.5	-81.9	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			56.5	-81.0	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.0	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.1	-89.1	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			47.1	-91.8	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			57.2	-81.6	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			56.1	-82.5	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			53.7	-85.0	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			52.8	-86.1	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.4	-87.0	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			48.7	-90.4	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			51.9	-86.3	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			52.4	-85.4	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			50.3	-88.0	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			53.3	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55
V2-1-2			66.3	-75.3	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			66.8	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			65.9	-75.1	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			59.4	-79.5	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			63.0	-76.6	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			51.5	-86.2	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day	Night	Day	Night	Type	Auto	Noise Type		X	Y	Z	
			(dBA)	(dBA)	(dBA)	(dBA)					(m)	(m)	(m)	
V2-7-2			49.0	-89.0	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			49.7	-88.5	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			47.6	-91.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			46.1	-92.8	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			55.0	-87.3	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			55.4	-87.1	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			54.0	-88.4	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			57.5	-85.4	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			55.6	-86.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			54.6	-86.3	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			57.1	-84.0	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			59.1	-82.3	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			52.8	-87.9	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			58.5	-82.6	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			53.1	-87.3	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			59.7	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			50.5	-90.0	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			59.4	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			59.0	-81.7	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			49.9	-90.4	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.8	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.3	-78.8	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.2	-80.2	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			49.8	-89.3	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.1	-78.7	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			48.6	-90.1	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			55.2	-82.4	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			61.4	-76.5	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			51.7	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.1	-88.2	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			47.8	-90.8	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.1	-81.7	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			56.3	-82.3	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.1	-84.6	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.5	-86.4	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			51.8	-87.3	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			49.1	-90.2	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			55.2	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			54.2	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			54.4	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			50.6	-88.0	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			58.1	-80.8	0.0	0.0	x		Total	1.50	r	1931014.95	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Parkplätze

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Straßen

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.57	550177.71	108.53	108.53		
			1929473.82	549975.56	109.75	109.75		
			1929570.86	549791.67	117.38	117.38		
			1929614.28	549712.66	126.50	126.50		
			1929654.62	549618.70	129.60	129.60		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929668.86	549547.52	130.50	130.50		
			1929681.35	549383.31	131.10	131.10		
			1929682.85	549124.18	130.80	130.80		

Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left	right	horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
									1928342.12	549672.82	123.45	121.65
									1928455.32	549718.14	121.92	120.12
									1928444.98	549751.05	122.53	120.73
									1928479.58	549781.14	122.20	120.40
									1928499.33	549757.44	122.20	120.40
									1928581.69	549825.52	121.30	119.50
									1928701.29	549869.52	120.40	118.60
									1928686.60	549897.95	120.10	118.30
									1928733.42	549932.17	121.00	119.20

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1928757.30	549910.55	121.00	119.20
									1928799.05	549979.75	122.80	121.00
									1928771.40	549994.42	122.80	121.00
									1928794.86	550041.80	122.20	120.40
									1928872.81	549994.42	122.50	120.70
									1928887.97	550020.00	123.40	121.60
									1928887.97	550056.73	121.30	119.50
									1928839.64	550092.74	122.80	121.00
									1928897.45	550126.86	120.70	118.90
									1928923.98	550076.16	121.60	119.50
									1928953.36	550060.99	122.20	120.40
									1928985.11	550091.32	122.20	120.40
									1928944.21	550155.20	120.70	118.90
									1928966.03	550176.45	121.30	119.50
									1929012.85	550156.14	121.30	119.50
									1929076.98	550156.33	121.90	120.10
									1929125.49	550175.70	122.20	120.40
									1929116.39	550204.05	122.20	120.40
									1929162.66	550219.73	122.20	120.40
									1929173.25	550191.67	122.20	120.40
									1929315.88	550236.68	124.40	122.60
									1929339.10	550265.11	124.40	122.60
									1929333.13	550326.61	124.66	122.86
									1929307.76	550410.79	125.30	123.50
									1929260.59	550505.71	131.10	129.30
									1929199.67	550571.15	132.60	130.80
									1929270.33	550639.09	128.93	127.13
									1929288.57	550607.81	128.93	127.13
									1929325.30	550580.56	128.30	126.50
									1929365.10	550496.45	128.30	126.50
									1929399.93	550447.41	128.90	127.10
									1929452.53	550424.19	129.10	129.10
									1929430.73	550397.18	128.90	127.10
									1929431.29	550375.18	128.90	127.10
									1929458.19	550361.32	129.55	127.75
									1929449.78	550348.05	129.80	128.00
									1929470.90	550324.17	130.76	128.96
									1929470.90	550310.25	131.40	129.60
									1929489.84	550298.12	131.40	129.60
									1929499.67	550298.17	131.40	129.60
									1929509.82	550295.87	131.40	129.60
									1929518.59	550285.68	131.40	129.60
									1929538.66	550282.40	131.40	129.60
									1929543.66	550297.47	131.70	129.90
									1929587.29	550297.49	131.70	129.90
									1929629.70	550312.65	132.00	130.20
									1929647.70	550336.29	132.00	130.20
									1929649.96	550355.19	132.30	130.50
									1929709.91	550355.19	133.50	131.70
									1929725.78	550362.18	133.80	132.00
									1929740.71	550384.69	134.40	132.60
									1929745.19	550432.90	136.80	135.00
									1929864.13	550459.91	140.20	138.40
									1929856.31	550488.81	140.20	138.40
									1929932.84	550512.03	140.50	138.70
									1929937.10	550527.91	141.10	139.30
									1929980.36	550554.80	142.04	140.24
									1929995.59	550554.61	142.34	140.54
									1929995.21	550571.35	142.65	140.85
									1929989.15	550588.70	143.30	141.50
									1930044.83	550602.58	143.60	141.80
									1930058.56	550599.45	143.90	142.10
									1930066.62	550616.31	143.90	142.10

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	148.75	146.95
											1931060.36	550132.51	149.05	147.25
											1931018.56	549917.54	151.80	150.00
											1930997.07	549886.49	152.40	150.60
											1930997.07	549779.00	152.70	150.90
											1930976.75	549752.30	154.50	152.70
											1930943.65	549848.97	153.30	151.50
											1930893.24	549888.47	152.40	150.60
											1930750.67	549928.35	151.80	150.00
											1930760.09	550356.28	145.10	143.30
											1930599.84	550341.98	145.10	143.30
											1930572.38	550326.56	146.30	144.50
											1930531.75	550308.13	146.90	145.10
											1930492.63	550308.50	147.50	145.70
											1930409.49	550298.34	144.50	142.70
											1930305.29	550306.71	139.90	138.10
											1930234.83	550328.05	139.30	137.50
											1930167.20	550347.01	138.10	136.30
											1930133.31	550347.01	138.10	136.30
											1930110.44	550362.89	137.80	136.00
											1930091.36	550362.77	137.50	135.70
											1930039.26	550346.22	138.40	136.60
											1929961.39	550305.22	139.00	137.20
											1929944.47	550281.14	139.60	137.80
											1929917.38	550269.85	140.50	138.70
											1929895.88	550242.53	139.00	137.20
											1929853.19	550227.01	137.20	135.40
											1929821.40	550198.80	136.60	134.80
											1929773.81	550174.91	135.95	134.15
											1929747.09	550175.06	135.30	133.50
											1929672.60	550144.21	135.30	133.50
											1929654.55	550128.03	134.40	132.60
											1929563.78	550084.14	133.50	131.70
											1929563.48	550068.62	132.90	131.10
											1929574.67	550057.99	132.90	131.10
											1929574.58	550046.42	132.90	131.10
											1929544.77	550032.60	133.50	131.70
											1929592.54	549922.72	134.40	132.60
											1929645.84	549826.43	136.90	135.10
											1929645.84	549800.95	137.20	135.40
											1929661.36	549756.76	137.50	135.70
											1929661.06	549743.92	137.50	135.70
											1929699.43	549609.81	139.00	137.20
											1929547.35	549655.29	132.90	131.10
											1929570.34	549664.55	132.90	131.10
											1929468.77	549808.26	135.30	133.50

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1929429.64	549840.61	135.95	134.15
									1929360.99	549959.11	137.50	135.70
									1929344.87	549971.67	137.50	135.70
									1929295.31	549971.08	137.80	136.00
									1929242.16	549965.70	138.10	136.30
									1929189.61	549949.58	138.10	136.30
									1929166.91	549935.24	136.30	134.50
									1929166.91	549921.51	136.30	134.50
									1929146.01	549915.54	136.30	134.50
									1929120.33	549879.11	136.00	134.20
									1929095.85	549910.76	136.00	134.20
									1929072.56	549896.01	136.00	134.20
									1929069.19	549884.45	136.00	134.20
									1929060.60	549884.45	136.00	134.20
									1929055.94	549876.37	136.00	134.20
									1929047.56	549876.46	136.00	134.20
									1929026.58	549855.40	134.40	132.60
									1928984.07	549792.20	123.75	121.95
									1928950.40	549768.60	120.70	118.90
									1928928.11	549746.49	117.65	115.85
									1928910.62	549730.32	111.50	109.70
									1928845.80	549663.13	102.40	100.60
									1928868.49	549639.84	105.45	103.65
									1929509.51	549659.60	133.80	132.00
									1929443.86	549678.98	137.50	135.70
									1929419.40	549704.37	139.80	138.00
									1929283.87	549877.62	142.95	141.15
									1929266.39	549877.80	142.95	141.15
									1929246.38	549867.50	142.95	141.15
									1929233.54	549874.21	142.95	141.15
									1929193.53	549845.10	143.30	141.50
									1929167.70	549889.59	136.30	134.50
									1929895.04	549109.28	129.80	128.00
									1929912.10	549009.74	129.80	128.00
									1929910.68	548918.73	129.50	127.70
									1929899.02	548837.46	123.75	121.95
									1929924.98	548809.62	122.20	120.40
									1929935.64	548787.58	120.70	118.90
									1929947.97	548756.77	118.30	116.50
									1930907.43	551027.87	143.30	141.50
									1930858.45	550995.62	142.39	140.59
									1930812.46	550978.29	141.63	139.83
									1930726.45	550931.11	140.10	138.30
									1930605.20	550840.32	137.75	135.95
									1930632.68	550793.13	136.90	135.10
									1930999.12	550692.72	146.60	144.80
									1931031.36	550692.72	146.48	144.68
									1931022.82	550748.19	146.26	144.46
									1931007.18	550805.08	146.04	144.24
									1930940.28	550944.25	145.45	143.65
									1930940.88	550960.38	145.39	143.59
									1930907.43	551027.87	145.10	143.30

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin	x	y	z	Ground
							(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2030 wo Project_111513.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5							
				Day	Night	Day	Night	Day	N										
Olympic Parkway Santa Victoria to Heritage Road				43.5		45.8		52.3	-83.6	49.9	-86.2	49.5	-86.7	51.3					
Heritage Road north of Olympic Parkway				34.4		34.6		37.6		39.8		41.3		41.5					
Heritage Road Santa Liza Avenue to Main Street				38.7		39.0		38.8		35.4		29.3		26.9					
La Media Road north of Olympic Parkway																			
La Media Road Olympic Parkway to Santa Venetia																			
Olympic Parkway Heritage Road to Santa Venetia Street				35.5		38.1		37.6		39.0		40.5		41.5					
Olympic Parkway east of La Media Road																			
La Media Road Santa Venetia to Birch																			
La Media Road south of Birch																			
Olympic Parkway Brandywine to Santa Victoria				50.0	-87.6	50.4	-87.1	40.9		38.3		35.2		36.1					
Olympic Parkway Santa Venetia Street to La Media Road																			
Heritage Road Olympic Parkway to Santa Victoria Road				33.9		34.7		33.7		35.8		39.2		41.6					
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.5		38.1		36.8		29.4		28.8		25.8					

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	:

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra	(dB)	(km/h)

Zugklassen

Parkplätze

Name	M.	ID	Type	Lwa			Event Data			Penalty Type			Penalty Surface		A	
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Day	Special	Night	Kpa	Type	
				(dBA)	(dBA)	(dBA)				(dB)			(dB)			

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data			
			Day	Evening	Night	DTV	Str.class.	Day	Evening	Night	Ev
			(dBA)	(dBA)	(dBA)						
Olympic Parkway Santa Victoria to Heritage Road			68.1	0.0	0.0			1549.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.4	0.0	0.0			5060.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			70.5	0.0	0.0			5113.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			68.8	0.0	0.0			2539.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			69.7	0.0	0.0			3096.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			72.1	0.0	0.0			3912.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			70.4	0.0	0.0			2609.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			69.7	0.0	0.0			3099.0	0.0	0.0	4.0
La Media Road south of Birch			67.2	0.0	0.0			1771.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			69.9	0.0	0.0			2340.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			71.3	0.0	0.0			3192.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			69.0	0.0	0.0			3623.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.2	0.0	0.0			3830.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates			
			Day	Evening	Night	Begin	X	Y	Z
			(m)	(m)	(m)	(m)	(m)	(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
1			51.6	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			52.4	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			53.2	-83.1	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			51.1	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			51.1	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			52.7	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			55.3	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			58.5	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			61.6	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			62.1	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			56.3	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			59.3	-79.9	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			59.9	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			57.7	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			53.7	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			54.5	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			57.4	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53
18			60.0	-79.1	0.0	0.0	x	Total		1.50	r	1930757.50	551149.45	164.58
19			58.2	-80.0	0.0	0.0	x	Total		1.50	r	1930761.84	551237.68	163.69
20			59.8	-77.5	0.0	0.0	x	Total		1.50	r	1930725.07	551431.57	160.91
21			62.6	-76.3	0.0	0.0	x	Total		1.50	r	1931138.01	551153.15	156.13
22			62.4	-76.3	0.0	0.0	x	Total		1.50	r	1931008.44	551062.29	153.21
23			62.2	-76.3	0.0	0.0	x	Total		1.50	r	1931036.25	550950.55	152.18

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
24			60.1	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			62.0	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			64.0	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			63.2	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			62.3	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			62.0	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			61.2	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			58.8	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			57.0	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			52.6	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			48.1	-88.1	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			48.6	-88.1	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			47.6	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			47.5	-89.8	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			45.8	-92.5	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			61.9	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			58.9	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			64.5	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			63.9	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			63.9	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			55.0	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			56.1	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			52.7	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			56.6	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			52.5	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			51.1	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			54.5	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			56.6	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			52.5	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			55.2	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			52.9	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			57.5	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			50.4	-89.3	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			57.0	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			55.9	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			50.3	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.2	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			57.8	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			50.1	-88.4	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			57.5	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			58.7	-79.3	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			49.6	-88.7	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			58.5	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			61.0	-77.1	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.1	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.6	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			48.9	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			57.4	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			56.8	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			54.1	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.2	-85.8	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.6	-86.6	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			47.7	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			52.0	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			51.2	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			49.3	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			52.0	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55
V2-1-2			65.2	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			65.7	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			65.3	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			60.3	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			63.1	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			50.0	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height	Coordinates			
			Day (dBA)	Night (dBA)	Day (dBA)	Night (dBA)	Type	Auto	Noise Type		(m)	(m)	(m)	(m)
V2-7-2			47.8	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			50.6	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			46.9	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			45.8	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			54.1	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			54.4	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			53.2	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			55.5	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			51.8	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			53.5	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			56.0	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			57.9	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			53.5	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			57.3	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			54.1	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			58.6	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			52.0	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			58.3	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			58.0	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			50.5	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.2	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.3	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.6	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.0	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.2	-78.9	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.2	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			58.5	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			61.6	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			51.7	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.3	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			48.7	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.4	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			57.0	-81.9	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.2	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.4	-86.3	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.2	-86.7	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			48.4	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			53.8	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			52.8	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			53.0	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			49.7	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			59.0	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height			Coordinates		
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Flächenquellen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Parkplätze

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Straßen

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		
			1929663.23	548907.59	123.50	123.50		
			1929665.13	548644.26	118.90	118.90		
			1929655.36	548550.29	118.30	118.30		
			1929599.72	548440.52	117.70	117.70		
			1929508.00	548356.32	117.00	117.00		
			1929428.31	548303.69	115.85	115.85		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70		
			1930714.08	551695.67	157.00	157.00		
			1930738.13	551566.35	154.60	154.60		
			1930864.44	551157.36	137.20	137.20		
			1930901.62	551087.75	136.60	136.60		
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60		
			1930991.49	550920.09	137.50	137.50		
			1931068.93	550688.52	145.10	145.10		
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50		
			1929608.35	550240.76	111.00	111.00		
			1929728.89	550291.49	112.50	112.50		
			1930088.85	550533.98	118.30	118.30		
			1930556.33	550845.34	132.00	132.00		
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60		
			1931037.22	551145.37	140.85	140.85		
			1931357.51	551422.05	152.44	152.44		
			1931557.51	551578.44	154.30	154.30		
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10		
			1931094.22	550520.86	148.50	148.50		
			1931094.22	550246.14	146.95	146.95		
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95		
			1931089.07	549955.15	136.60	136.60		
			1931093.58	549704.02	123.20	123.20		
			1931117.45	549588.24	123.50	123.50		
			1931166.39	549437.86	131.10	131.10		
			1931266.80	549267.34	138.40	138.40		
			1931408.90	549062.72	141.50	141.50		
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00		
			1928492.29	549599.18	90.80	90.80		
			1928681.87	549760.28	94.20	94.20		
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00		
			1930757.99	550994.20	134.75	134.75		
			1930907.47	551072.50	136.60	136.60		
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.57	550177.71	108.53	108.53		
			1929473.82	549975.56	109.75	109.75		
			1929570.86	549791.67	117.38	117.38		
			1929614.28	549712.66	126.50	126.50		
			1929654.62	549618.70	129.60	129.60		
			1929668.86	549547.52	130.50	130.50		
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929668.19	549547.73	130.50	130.50		
			1929681.35	549383.31	131.10	131.10		
			1929682.85	549124.18	130.80	130.80		

Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates					
					left	right		horz.	vert.	Begin	End	x	y	z
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1928342.12	549672.82	123.45	121.65	
										1928455.32	549718.14	121.92	120.12	
										1928444.98	549751.05	122.53	120.73	
										1928479.58	549781.14	122.20	120.40	
										1928499.33	549757.44	122.20	120.40	
										1928581.69	549825.52	121.30	119.50	
										1928701.29	549869.52	120.40	118.60	
										1928686.60	549897.95	120.10	118.30	
										1928733.42	549932.17	121.00	119.20	

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1928757.30	549910.55	121.00	119.20
									1928799.05	549979.75	122.80	121.00
									1928771.40	549994.42	122.80	121.00
									1928794.86	550041.80	122.20	120.40
									1928872.81	549994.42	122.50	120.70
									1928887.97	550020.00	123.40	121.60
									1928887.97	550056.73	121.30	119.50
									1928839.64	550092.74	122.80	121.00
									1928897.45	550126.86	120.70	118.90
									1928923.98	550076.16	121.60	119.50
									1928953.36	550060.99	122.20	120.40
									1928985.11	550091.32	122.20	120.40
									1928944.21	550155.20	120.70	118.90
									1928966.03	550176.45	121.30	119.50
									1929012.85	550156.14	121.30	119.50
									1929076.98	550156.33	121.90	120.10
									1929125.49	550175.70	122.20	120.40
									1929116.39	550204.05	122.20	120.40
									1929162.66	550219.73	122.20	120.40
									1929173.25	550191.67	122.20	120.40
									1929315.88	550236.68	124.40	122.60
									1929339.10	550265.11	124.40	122.60
									1929333.13	550326.61	124.66	122.86
									1929307.76	550410.79	125.30	123.50
									1929260.59	550505.71	131.10	129.30
									1929199.67	550571.15	132.60	130.80
									1929270.33	550639.09	128.93	127.13
									1929288.57	550607.81	128.93	127.13
									1929325.30	550580.56	128.30	126.50
									1929365.10	550496.45	128.30	126.50
									1929399.93	550447.41	128.90	127.10
									1929452.53	550424.19	129.10	129.10
									1929430.73	550397.18	128.90	127.10
									1929431.29	550375.18	128.90	127.10
									1929458.19	550361.32	129.55	127.75
									1929449.78	550348.05	129.80	128.00
									1929470.90	550324.17	130.76	128.96
									1929470.90	550310.25	131.40	129.60
									1929489.84	550298.12	131.40	129.60
									1929499.67	550298.17	131.40	129.60
									1929509.82	550295.87	131.40	129.60
									1929518.59	550285.68	131.40	129.60
									1929538.66	550282.40	131.40	129.60
									1929543.66	550297.47	131.70	129.90
									1929587.29	550297.49	131.70	129.90
									1929629.70	550312.65	132.00	130.20
									1929647.70	550336.29	132.00	130.20
									1929649.96	550355.19	132.30	130.50
									1929709.91	550355.19	133.50	131.70
									1929725.78	550362.18	133.80	132.00
									1929740.71	550384.69	134.40	132.60
									1929745.19	550432.90	136.80	135.00
									1929864.13	550459.91	140.20	138.40
									1929856.31	550488.81	140.20	138.40
									1929932.84	550512.03	140.50	138.70
									1929937.10	550527.91	141.10	139.30
									1929980.36	550554.80	142.04	140.24
									1929995.59	550554.61	142.34	140.54
									1929995.21	550571.35	142.65	140.85
									1929989.15	550588.70	143.30	141.50
									1930044.83	550602.58	143.60	141.80
									1930058.56	550599.45	143.90	142.10
									1930066.62	550616.31	143.90	142.10

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
										1930131.70	550656.91	145.10	143.30	
										1930118.26	550676.32	145.70	143.90	
										1930141.85	550681.09	146.30	144.50	
										1930147.37	550691.69	146.30	144.50	
										1930139.47	550727.05	146.60	144.89	
										1930165.65	550739.96	146.90	145.10	
										1930233.72	550800.26	146.90	145.10	
										1930284.39	550792.50	150.58	148.78	
										1930339.13	550825.91	151.80	150.00	
										1930400.03	550889.80	154.80	153.00	
										1930451.21	550981.73	158.80	157.00	
										1930471.82	550966.21	158.80	157.00	
										1930539.23	550966.45	158.80	157.00	
										1930539.14	550983.00	159.40	157.60	
										1930562.05	550982.92	160.03	158.23	
										1930627.87	551054.01	161.90	160.10	
										1930663.04	551053.82	161.90	160.10	
										1930684.86	551094.45	162.77	160.97	
										1930709.44	551106.20	162.77	160.97	
										1930722.39	551106.24	163.10	161.30	
										1930739.11	551134.83	163.10	161.30	
										1930767.78	551152.36	163.10	161.30	
										1930777.50	551178.19	162.80	161.00	
										1930761.15	551210.41	162.80	161.00	
										1930771.68	551235.80	161.90	160.10	
										1930748.99	551271.63	161.90	160.10	
										1930749.34	551328.97	161.30	159.50	
										1930734.89	551383.23	160.30	158.50	
										1930735.27	551419.72	159.70	157.90	
										1930724.73	551453.57	158.80	157.00	
										1930617.86	551481.04	158.50	156.70	
										1931363.09	551335.42	165.50	163.70	
										1931241.88	551251.23	162.50	160.70	
										1931209.63	551222.57	159.40	157.60	
										1931179.18	551167.64	157.30	155.50	
										1931162.46	551167.64	155.80	154.00	
										1931123.65	551150.92	153.60	151.80	
										1931109.32	551130.02	153.60	151.80	
										1931003.04	551066.73	151.80	150.00	
										1931002.44	551016.57	150.60	148.80	
										1931034.91	550961.13	150.60	148.80	
										1931030.17	550955.20	150.30	148.50	
										1931038.46	550929.61	150.80	149.00	
										1931045.57	550925.82	151.20	149.40	
										1931050.55	550912.08	152.40	150.60	
										1931047.94	550907.10	153.00	151.20	
										1931057.18	550881.27	152.70	150.90	
										1931069.74	550860.89	152.10	150.30	
										1931083.09	550809.93	152.10	150.30	
										1931095.13	550762.53	153.00	151.20	
										1931108.48	550748.80	153.30	151.20	
										1931149.29	550739.02	153.90	152.10	
										1931228.11	550762.91	154.80	153.00	
										1931240.39	550725.79	155.80	154.00	
										1931132.33	550683.13	152.40	150.60	
										1931114.32	550657.07	152.40	150.60	
										1931114.32	550632.42	152.40	150.60	
										1931119.59	550598.19	153.90	152.10	
										1931137.13	550478.77	155.50	153.70	
										1931138.72	550469.55	155.80	153.70	
										1931138.72	550408.99	156.10	154.30	
										1931144.89	550404.25	156.10	154.30	
										1931144.96	550393.58	156.10	154.30	

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40
											1929661.36	549756.76	135.70	135.70
											1929661.06	549743.92	135.70	135.70
											1929699.43	549609.81	137.20	137.20
											1929547.35	549655.29	131.10	131.10
											1929570.34	549664.55	131.10	131.10
											1929468.77	549808.26	133.50	133.50

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates			
					left right		horz.	vert.	Begin	End	x	y
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	z
												Ground
									1929429.64	549840.61	134.15	134.15
									1929360.99	549959.11	135.70	135.70
									1929344.87	549971.67	135.70	135.70
									1929295.31	549971.08	136.00	136.00
									1929242.16	549965.70	136.30	136.30
									1929189.61	549949.58	136.30	136.30
									1929166.91	549935.24	134.50	134.50
									1929166.91	549921.51	134.50	134.50
									1929146.01	549915.54	134.50	134.50
									1929120.33	549879.11	134.20	134.20
									1929095.85	549910.76	134.20	134.20
									1929072.56	549896.01	134.20	134.20
									1929069.19	549884.45	134.20	134.20
									1929060.60	549884.45	134.20	134.20
									1929055.94	549876.37	134.20	134.20
									1929047.56	549876.46	134.20	134.20
									1929026.58	549855.40	132.60	132.60
									1928984.07	549792.20	121.95	121.95
									1928950.40	549768.60	118.90	118.90
									1928928.11	549746.49	115.85	115.85
									1928910.62	549730.32	109.70	109.70
									1928845.80	549663.13	100.60	100.60
									1928868.49	549639.84	103.65	103.65
									1929509.51	549659.60	132.00	132.00
									1929443.86	549678.98	135.70	135.70
									1929419.40	549704.37	138.00	138.00
									1929283.87	549877.62	141.15	141.15
									1929266.39	549877.80	141.15	141.15
									1929246.38	549867.50	141.15	141.15
									1929233.54	549874.21	141.15	141.15
									1929193.53	549845.10	141.50	141.50
									1929167.70	549889.59	134.50	134.50
									1929895.04	549109.28	128.00	128.00
									1929912.10	549009.74	128.00	128.00
									1929910.68	548918.73	127.70	127.70
									1929899.02	548837.46	121.95	121.95
									1929924.98	548809.62	120.40	120.40
									1929935.64	548787.58	118.90	118.90
									1929947.97	548756.77	116.50	116.50
									1930907.43	551027.87	141.50	141.50
									1930858.45	550995.62	140.59	140.59
									1930812.46	550978.29	139.83	139.83
									1930726.45	550931.11	138.30	138.30
									1930605.20	550840.32	135.95	135.95
									1930632.68	550793.13	135.10	135.10
									1930999.12	550692.72	144.80	144.80
									1931031.36	550692.72	144.68	144.68
									1931022.82	550748.19	144.46	144.46
									1931007.18	550805.08	144.24	144.24
									1930940.28	550944.25	143.65	143.65
									1930940.88	550960.38	143.59	143.59
									1930907.43	551027.87	143.30	143.30

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin	x	y	z	Ground
							(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	y	z
				(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2030 w Project_111513.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5		6			
				Day	Night												
Olympic Parkway Santa Victoria to Heritage Road				43.7		46.0		52.5	-83.6	50.0	-86.2	49.7	-86.7	51.5			
Heritage Road north of Olympic Parkway				34.6		34.9		37.8		40.0		41.6		41.8			
Heritage Road Santa Liza Avenue to Main Street				38.9		39.2		39.0		35.6		29.5		27.1			
La Media Road north of Olympic Parkway																	
La Media Road Olympic Parkway to Santa Venetia																	
Olympic Parkway Heritage Road to Santa Venetia Street				35.6		38.2		37.6		39.0		40.5		41.5			
Olympic Parkway east of La Media Road																	
La Media Road Santa Venetia to Birch																	
La Media Road south of Birch																	
Olympic Parkway Brandywine to Santa Victoria				50.6	-87.6	50.9	-87.1	41.5		38.8		35.8		36.7			
Olympic Parkway Santa Venetia Street to La Media Road												24.8		26.9		26.4	
Heritage Road Olympic Parkway to Santa Victoria Road				34.2		35.0		34.0		36.1		39.4		41.9			
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.8		38.5		37.2		29.7		29.2		26.1			

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra		
			(dB)	(dB)	(dB)	(dB)	(dB)	(km/h)		

Zugklassen

Name	M.	ID	Lm,E		Train Class								Add.Level		Vmax		
			Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)	Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(km/h)

Name	Lm,E		Train Class								Event Data		
	Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)	Kpa	Type	
	(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	Day	Night	(dB)	Surface

Parkplätze

Name	M.	ID	Type	Lwa			Event Data					Penalty Type	Penalty Surface	A	
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Kpa				
				(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data				
			Day	Evening	Night	DTV	Str.class.	M	Day	Evening	Night	Day
			(dBA)	(dBA)	(dBA)							Eve
Olympic Parkway Santa Victoria to Heritage Road			68.3	0.0	0.0				1620.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.7	0.0	0.0				5380.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			70.7	0.0	0.0				5380.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			69.0	0.0	0.0				2681.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			70.0	0.0	0.0				3310.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			72.2	0.0	0.0				3930.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			70.5	0.0	0.0				2680.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			70.0	0.0	0.0				3330.0	0.0	0.0	4.0
La Media Road south of Birch			67.5	0.0	0.0				1860.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			70.5	0.0	0.0				2660.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			71.3	0.0	0.0				3210.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			69.3	0.0	0.0				3890.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.6	0.0	0.0				4150.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates		
			Day	Evening	Night	Begin	X	Y
			(m)				(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)								
1			52.1	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			52.8	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			53.4	-83.1	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			51.3	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			51.3	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			52.9	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			55.5	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			58.7	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			61.9	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			62.4	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			56.6	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			59.4	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			59.9	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			57.8	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			53.8	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			54.6	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			57.5	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
18			60.2	-79.1	0.0	0.0	x		Total	1.50	r	1930757.50	551149.45	164.58
19			58.4	-80.0	0.0	0.0	x		Total	1.50	r	1930761.84	551237.68	163.69
20			60.0	-77.5	0.0	0.0	x		Total	1.50	r	1930725.07	551431.57	160.91
21			62.7	-76.3	0.0	0.0	x		Total	1.50	r	1931138.01	551153.15	156.13
22			62.6	-76.3	0.0	0.0	x		Total	1.50	r	1931008.44	551062.29	153.21
23			62.4	-76.3	0.0	0.0	x		Total	1.50	r	1931036.25	550950.55	152.18
24			60.4	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			62.3	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			64.3	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			63.6	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			62.6	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			62.2	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			61.4	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			59.0	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			57.2	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			52.8	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			48.3	-88.1	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			48.8	-88.2	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			47.8	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			47.7	-89.9	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			46.0	-92.4	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			62.2	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			59.1	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			64.5	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			64.0	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			63.9	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			55.1	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			56.1	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			52.8	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			56.7	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			52.6	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			51.2	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			54.6	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			56.6	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			52.6	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			55.2	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			53.0	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			57.6	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			50.5	-89.3	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			57.0	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			56.0	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			50.4	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.4	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			58.0	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			50.4	-88.4	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			57.9	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			59.0	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			49.8	-88.8	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			58.9	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			61.7	-76.9	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.4	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.8	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			49.1	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			57.7	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			57.2	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			54.4	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.4	-85.8	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.8	-86.6	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			48.0	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			52.2	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			51.5	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			49.7	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			52.3	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)								
V2-1-2			65.2	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			65.7	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			65.3	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			60.6	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			63.4	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			50.2	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10
V2-7-2			48.0	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			50.8	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			47.2	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			46.0	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			54.2	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			54.5	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			53.3	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			55.5	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			51.9	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			53.6	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			56.1	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			58.0	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			53.6	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			57.4	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			54.1	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			58.6	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			52.1	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			58.3	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			58.0	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			50.7	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.4	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.6	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.9	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.3	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.6	-78.8	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.5	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			58.8	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			62.0	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			52.0	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.5	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			48.9	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.8	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			57.3	-81.8	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.6	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.8	-86.2	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.5	-86.6	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			48.7	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			54.0	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			53.1	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			53.3	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			50.0	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			59.2	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons
				(1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			Ground
	Begin	End	x	y	z	
	(m)	(m)	(m)	(m)	(m)	

Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin End		x	y	z	Ground		
	(m)	(m)	(m)	(m)	(m)	(m)		
		1929663.23	548907.59	123.50	123.50			
		1929665.13	548644.26	118.90	118.90			
		1929655.36	548550.29	118.30	118.30			
		1929599.72	548440.52	117.70	117.70			
		1929508.00	548356.32	117.00	117.00			
		1929428.31	548303.69	115.85	115.85			
La Media Road north of Olympic Parkway		1930732.12	551894.15	156.70	156.70			
		1930714.08	551695.67	157.00	157.00			
		1930738.13	551566.35	154.60	154.60			
		1930864.44	551157.36	137.20	137.20			
		1930901.62	551087.75	136.60	136.60			
La Media Road Olympic Parkway to Santa Venetia		1930917.08	551059.22	136.60	136.60			
		1930991.49	550920.09	137.50	137.50			
		1931068.93	550688.52	145.10	145.10			
Olympic Parkway Heritage Road to Santa Venetia Street		1929419.78	550194.81	108.50	108.50			
		1929608.35	550240.76	111.00	111.00			
		1929728.89	550291.49	112.50	112.50			
		1930088.85	550533.98	118.30	118.30			
		1930556.33	550845.34	132.00	132.00			
Olympic Parkway east of La Media Road		1930909.22	551073.61	136.60	136.60			
		1931037.22	551145.37	140.85	140.85			
		1931357.51	551422.05	152.44	152.44			
		1931557.51	551578.44	154.30	154.30			
La Media Road Santa Venetia to Birch		1931068.64	550688.06	145.10	145.10			
		1931094.22	550520.86	148.50	148.50			
		1931094.22	550246.14	146.95	146.95			
La Media Road south of Birch		1931093.80	550245.97	146.95	146.95			
		1931089.07	549955.15	136.60	136.60			
		1931093.58	549704.02	123.20	123.20			
		1931117.45	549588.24	123.50	123.50			
		1931166.39	549437.86	131.10	131.10			
		1931266.80	549267.34	138.40	138.40			
		1931408.90	549062.72	141.50	141.50			
Olympic Parkway Brandywine to Santa Victoria		1928376.01	549542.98	89.00	89.00			
		1928492.29	549599.18	90.80	90.80			
		1928681.87	549760.28	94.20	94.20			
Olympic Parkway Santa Venetia Street to La Media Road		1930555.31	550845.33	132.00	132.00			
		1930757.99	550994.20	134.75	134.75			
		1930907.47	551072.50	136.60	136.60			
Heritage Road Olympic Parkway to Santa Victoria Road		1929422.77	550177.51	108.53	108.53			
		1929474.74	549975.64	109.75	109.75			
		1929571.16	549791.84	117.38	117.38			
		1929614.85	549712.75	126.50	126.50			
		1929654.91	549620.07	129.60	129.60			
		1929669.26	549546.54	130.50	130.50			
Heritage Road Santa Victoria Road to Santa Liza Avenue		1929669.19	549546.66	130.50	130.50			
		1929681.14	549382.24	131.10	131.10			
		1929682.34	549124.56	130.80	130.80			

Geometrie Schienen

Name	Height		Coordinates			
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever		Height		Coordinates				
					left	right	horz.	vert.	Begin	End	x	y	z
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
									1928342.12	549672.82	123.45	121.65	
									1928455.32	549718.14	121.92	120.12	
									1928444.98	549751.05	122.53	120.73	

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1928479.58	549781.14	122.20	120.40
											1928499.33	549757.44	122.20	120.40
											1928581.69	549825.52	121.30	119.50
											1928701.29	549869.52	120.40	118.60
											1928686.60	549897.95	120.10	118.30
											1928733.42	549932.17	121.00	119.20
											1928757.30	549910.55	121.00	119.20
											1928799.05	549979.75	122.80	121.00
											1928771.40	549994.42	122.80	121.00
											1928794.86	550041.80	122.20	120.40
											1928872.81	549994.42	122.50	120.70
											1928887.97	550020.00	123.40	121.60
											1928887.97	550056.73	121.30	119.50
											1928839.64	550092.74	122.80	121.00
											1928897.45	550126.86	120.70	118.90
											1928923.98	550076.16	121.60	119.50
											1928953.36	550060.99	122.20	120.40
											1928985.11	550091.32	122.20	120.40
											1928944.21	550155.20	120.70	118.90
											1928966.03	550176.45	121.30	119.50
											1929012.85	550156.14	121.30	119.50
											1929076.98	550156.33	121.90	120.10
											1929125.49	550175.70	122.20	120.40
											1929116.39	550204.05	122.20	120.40
											1929162.66	550219.73	122.20	120.40
											1929173.25	550191.67	122.20	120.40
											1929315.88	550236.68	124.40	122.60
											1929339.10	550265.11	124.40	122.60
											1929333.13	550326.61	124.66	122.86
											1929307.76	550410.79	125.30	123.50
											1929260.59	550505.71	131.10	129.30
											1929199.67	550571.15	132.60	130.80
											1929270.33	550639.09	128.93	127.13
											1929288.57	550607.81	128.93	127.13
											1929325.30	550580.56	128.30	126.50
											1929365.10	550496.45	128.30	126.50
											1929399.93	550447.41	128.90	127.10
											1929452.53	550424.19	129.10	129.10
											1929430.73	550397.18	128.90	127.10
											1929431.29	550375.18	128.90	127.10
											1929458.19	550361.32	129.55	127.75
											1929449.78	550348.05	129.80	128.00
											1929470.90	550324.17	130.76	128.96
											1929470.90	550310.25	131.40	129.60
											1929489.84	550298.12	131.40	129.60
											1929499.67	550298.17	131.40	129.60
											1929509.82	550295.87	131.40	129.60
											1929518.59	550285.68	131.40	129.60
											1929538.66	550282.40	131.40	129.60
											1929543.66	550297.47	131.70	129.90
											1929587.29	550297.49	131.70	129.90
											1929629.70	550312.65	132.00	130.20
											1929647.70	550336.29	132.00	130.20
											1929649.96	550355.19	132.30	130.50
											1929709.91	550355.19	133.50	131.70
											1929725.78	550362.18	133.80	132.00
											1929740.71	550384.69	134.40	132.60
											1929745.19	550432.90	136.80	135.00
											1929864.13	550459.91	140.20	138.40
											1929856.31	550488.81	140.20	138.40
											1929932.84	550512.03	140.50	138.70
											1929937.10	550527.91	141.10	139.30
											1929980.36	550554.80	142.04	140.24

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1929995.59	550554.61	142.34	140.54
											1929995.21	550571.35	142.65	140.85
											1929989.15	550588.70	143.30	141.50
											1930044.83	550602.58	143.60	141.80
											1930058.56	550599.45	143.90	142.10
											1930066.62	550616.31	143.90	142.10
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	146.95	146.95
											1931060.36	550132.51	147.25	147.25
											1931018.56	549917.54	150.00	150.00
											1930997.07	549886.49	150.60	150.60
											1930997.07	549779.00	150.90	150.90
											1930976.75	549752.30	152.70	152.70
											1930943.65	549848.97	151.50	151.50
											1930893.24	549888.47	150.60	150.60
											1930750.67	549928.35	150.00	150.00
											1930760.09	550356.28	143.30	143.30
											1930599.84	550341.98	143.30	143.30
											1930572.38	550326.56	144.50	144.50
											1930531.75	550308.13	145.10	145.10
											1930492.63	550308.50	145.70	145.70
											1930409.49	550298.34	142.70	142.70
											1930305.29	550306.71	138.10	138.10
											1930234.83	550328.05	137.50	137.50
											1930167.20	550347.01	136.30	136.30
											1930133.31	550347.01	136.30	136.30
											1930110.44	550362.89	136.00	136.00
											1930091.36	550362.77	135.70	135.70
											1930039.26	550346.22	136.60	136.60
											1929961.39	550305.22	137.20	137.20
											1929944.47	550281.14	137.80	137.80
											1929917.38	550269.85	138.70	138.70
											1929895.88	550242.53	137.20	137.20
											1929853.19	550227.01	135.40	135.40
											1929821.40	550198.80	134.80	134.80
											1929773.81	550174.91	134.15	134.15
											1929747.09	550175.06	133.50	133.50
											1929672.60	550144.21	133.50	133.50
											1929654.55	550128.03	132.60	132.60
											1929563.78	550084.14	131.70	131.70
											1929563.48	550068.62	131.10	131.10
											1929574.67	550057.99	131.10	131.10
											1929574.58	550046.42	131.10	131.10
											1929544.77	550032.60	131.70	131.70
											1929592.54	549922.72	132.60	132.60
											1929645.84	549826.43	135.10	135.10
											1929645.84	549800.95	135.40	135.40

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin	End	x	y	z	Ground		
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
									1929661.36	549756.76	135.70	135.70		
									1929661.06	549743.92	135.70	135.70		
									1929699.43	549609.81	137.20	137.20		
									1929547.35	549655.29	131.10	131.10		
									1929570.34	549664.55	131.10	131.10		
									1929468.77	549808.26	133.50	133.50		
									1929429.64	549840.61	134.15	134.15		
									1929360.99	549959.11	135.70	135.70		
									1929344.87	549971.67	135.70	135.70		
									1929295.31	549971.08	136.00	136.00		
									1929242.16	549965.70	136.30	136.30		
									1929189.61	549949.58	136.30	136.30		
									1929166.91	549935.24	134.50	134.50		
									1929166.91	549921.51	134.50	134.50		
									1929146.01	549915.54	134.50	134.50		
									1929120.33	549879.11	134.20	134.20		
									1929095.85	549910.76	134.20	134.20		
									1929072.56	549896.01	134.20	134.20		
									1929069.19	549884.45	134.20	134.20		
									1929060.60	549884.45	134.20	134.20		
									1929055.94	549876.37	134.20	134.20		
									1929047.56	549876.46	134.20	134.20		
									1929026.58	549855.40	132.60	132.60		
									1928984.07	549792.20	121.95	121.95		
									1928950.40	549768.60	118.90	118.90		
									1928928.11	549746.49	115.85	115.85		
									1928910.62	549730.32	109.70	109.70		
									1928845.80	549663.13	100.60	100.60		
									1928868.49	549639.84	103.65	103.65		
									1929509.51	549659.60	132.00	132.00		
									1929443.86	549678.98	135.70	135.70		
									1929419.40	549704.37	138.00	138.00		
									1929283.87	549877.62	141.15	141.15		
									1929266.39	549877.80	141.15	141.15		
									1929246.38	549867.50	141.15	141.15		
									1929233.54	549874.21	141.15	141.15		
									1929193.53	549845.10	141.50	141.50		
									1929167.70	549889.59	134.50	134.50		
									1929895.04	549109.28	128.00	128.00		
									1929912.10	549009.74	128.00	128.00		
									1929910.68	548918.73	127.70	127.70		
									1929899.02	548837.46	121.95	121.95		
									1929924.98	548809.62	120.40	120.40		
									1929935.64	548787.58	118.90	118.90		
									1929947.97	548756.77	116.50	116.50		
									1930907.43	551027.87	141.50	141.50		
									1930858.45	550995.62	140.59	140.59		
									1930812.46	550978.29	139.83	139.83		
									1930726.45	550931.11	138.30	138.30		
									1930605.20	550840.32	135.95	135.95		
									1930632.68	550793.13	135.10	135.10		
									1930999.12	550692.72	144.80	144.80		
									1931031.36	550692.72	144.68	144.68		
									1931022.82	550748.19	144.46	144.46		
									1931007.18	550805.08	144.24	144.24		
									1930940.28	550944.25	143.65	143.65		
									1930940.88	550960.38	143.59	143.59		
									1930907.43	551027.87	143.30	143.30		

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height	Coordinates				
							Begin	x	y	z	Ground
							(m)	(m)	(m)	(m)	(m)

Geometrie Höhenlinien

Name	M.	ID	OnlyPts	Height		Coordinates			
				Begin	End	x	y	z	
				(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y
			(m)	(m)

Bericht (Year2030 w Project_w walls _111713.cna)

Gruppentabelle Tag und Nacht

Name	Expression	1		2		3		4		5		6		7		8		9	
		Day	Night	Day	N														

Source	Name	M.	ID	1		2		3		4		5		6			
				Day	Night												
Olympic Parkway Santa Victoria to Heritage Road				43.7		46.0		52.5	-83.6	50.0	-86.2	49.7	-86.7	51.5			
Heritage Road north of Olympic Parkway				34.6		34.9		37.8		40.0		41.6		41.8			
Heritage Road Santa Liza Avenue to Main Street				38.9		39.2		39.0		35.6		29.5		27.1			
La Media Road north of Olympic Parkway																	
La Media Road Olympic Parkway to Santa Venetia																	
Olympic Parkway Heritage Road to Santa Venetia Street				35.6		38.2		37.6		39.0		40.5		41.5			
Olympic Parkway east of La Media Road																	
La Media Road Santa Venetia to Birch																	
La Media Road south of Birch																	
Olympic Parkway Brandywine to Santa Victoria				50.6	-87.6	50.9	-87.1	41.5		38.8		35.8		36.7			
Olympic Parkway Santa Venetia Street to La Media Road												24.8		26.9		26.4	
Heritage Road Olympic Parkway to Santa Victoria Road				34.2		35.0		34.0		36.1		39.4		41.9			
Heritage Road Santa Victoria Road to Santa Liza Avenue				37.8		38.5		37.2		29.7		29.2		26.1			

Schallquellen

Punktquellen

Name	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction			Attenuation			Operating Time		
			Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	Special	Night	(min)	(dB)	

Linienquellen

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Flächenquellen vertikal

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction			Attenuation		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	(m ²)	Day	(min)	

Schienen

Name	M.	ID	Lm,E		Train Class		Add.Level		Vmax	
			Day	Night	Dfb	Dbr	Dbü	Dra		
			(dB)	(dB)	(dB)	(dB)	(dB)	(km/h)		

Zugklassen

Name	M.	ID	Lm,E		Train Class								Add.Level		Vmax		
			Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)	Dfb	Dbr	Dbü	Dra	
			(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	(dB)	Day	Night	(dB)	(dB)	(km/h)

Name	Lm,E		Train Class										
	Day	Night	Type	p	Number of Trains	v	I	Dfz	Dae	Lm,E,i (dB)			
	(dBA)	(dBA)	(%)	Day	Evening	Night	(km/h)	(m)	(dB)	Day	Night		

Parkplätze

Name	M.	ID	Type	Lwa			Event Data					Penalty Type		Penalty Surface		A
				Day	Special	Night	Ref. Quantity	Number B	No. Spaces/RefQ	Events/h/RefQ	Kpa	Type	Kstro	Surface		
				(dBA)	(dBA)	(dBA)				Day	Special	Night	(dB)		(dB)	

Strassen

Name	M.	ID	Lme			Count Data		exact Count Data				
			Day	Evening	Night	DTV	Str.class.	M	Day	Evening	Night	Day
			(dBA)	(dBA)	(dBA)							Eve
Olympic Parkway Santa Victoria to Heritage Road			68.3	0.0	0.0				1620.0	0.0	0.0	4.0
Heritage Road north of Olympic Parkway			70.7	0.0	0.0				5380.0	0.0	0.0	4.0
Heritage Road Santa Liza Avenue to Main Street			70.7	0.0	0.0				5380.0	0.0	0.0	4.0
La Media Road north of Olympic Parkway			69.0	0.0	0.0				2681.0	0.0	0.0	4.0
La Media Road Olympic Parkway to Santa Venetia			70.0	0.0	0.0				3310.0	0.0	0.0	4.0
Olympic Parkway Heritage Road to Santa Venetia Street			72.2	0.0	0.0				3930.0	0.0	0.0	4.0
Olympic Parkway east of La Media Road			70.5	0.0	0.0				2680.0	0.0	0.0	4.0
La Media Road Santa Venetia to Birch			70.0	0.0	0.0				3330.0	0.0	0.0	4.0
La Media Road south of Birch			67.5	0.0	0.0				1860.0	0.0	0.0	4.0
Olympic Parkway Brandywine to Santa Victoria			70.5	0.0	0.0				2660.0	0.0	0.0	4.0
Olympic Parkway Santa Venetia Street to La Media Road			71.3	0.0	0.0				3210.0	0.0	0.0	4.0
Heritage Road Olympic Parkway to Santa Victoria Road			69.3	0.0	0.0				3890.0	0.0	0.0	4.0
Heritage Road Santa Victoria Road to Santa Liza Avenue			69.6	0.0	0.0				4150.0	0.0	0.0	4.0

Ampeln

Name	M.	ID	Active		Height	Coordinates		
			Day	Evening	Night	Begin	X	Y
			(m)				(m)	(m)

Immissionspunkte

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	(m)	(m)	(m)
			(dBA)	(dBA)	(dBA)	(dBA)								
1			52.1	-85.9	0.0	0.0	x	Total		1.50	r	1928513.17	549777.36	123.50
2			52.8	-85.0	0.0	0.0	x	Total		1.50	r	1928611.46	549842.84	122.50
3			53.4	-83.1	0.0	0.0	x	Total		1.50	r	1928769.01	549940.12	123.18
4			51.3	-85.6	0.0	0.0	x	Total		1.50	r	1928880.08	550025.05	124.62
5			51.3	-85.9	0.0	0.0	x	Total		1.50	r	1928973.19	550093.88	123.50
6			52.9	-83.9	0.0	0.0	x	Total		1.50	r	1929067.19	550164.17	123.30
7			55.5	-81.6	0.0	0.0	x	Total		1.50	r	1929235.11	550218.63	124.69
8			58.7	-79.6	0.0	0.0	x	Total		1.50	r	1929322.19	550253.72	125.94
9			61.9	-77.4	0.0	0.0	x	Total		1.50	r	1929310.21	550383.47	126.55
10			62.4	-76.7	0.0	0.0	x	Total		1.50	r	1929388.82	550470.73	130.10
11			56.6	-82.0	0.0	0.0	x	Total		1.50	r	1929467.28	550339.53	131.76
12			59.4	-80.0	0.0	0.0	x	Total		1.50	r	1929526.05	550289.39	132.99
13			59.9	-80.2	0.0	0.0	x	Total		1.50	r	1929634.25	550324.90	133.58
14			57.8	-82.2	0.0	0.0	x	Total		1.50	r	1929853.63	550462.25	141.43
15			53.8	-86.6	0.0	0.0	x	Total		1.50	r	1930098.56	550646.91	146.31
16			54.6	-85.0	0.0	0.0	x	Total		1.50	r	1930499.35	550973.62	160.55
17			57.5	-81.7	0.0	0.0	x	Total		1.50	r	1930655.50	551060.11	163.53

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
18			60.2	-79.1	0.0	0.0	x		Total	1.50	r	1930757.50	551149.45	164.58
19			58.4	-80.0	0.0	0.0	x		Total	1.50	r	1930761.84	551237.68	163.69
20			60.0	-77.5	0.0	0.0	x		Total	1.50	r	1930725.07	551431.57	160.91
21			62.7	-76.3	0.0	0.0	x		Total	1.50	r	1931138.01	551153.15	156.13
22			62.6	-76.3	0.0	0.0	x		Total	1.50	r	1931008.44	551062.29	153.21
23			62.4	-76.3	0.0	0.0	x		Total	1.50	r	1931036.25	550950.55	152.18
24			60.4	-77.8	0.0	0.0	x		Total	1.50	r	1931100.09	550770.09	154.42
25			62.3	-76.3	0.0	0.0	x		Total	1.50	r	1931125.09	550667.41	153.90
26			64.3	-74.5	0.0	0.0	x		Total	1.50	r	1931124.03	550600.25	155.50
27			63.6	-75.3	0.0	0.0	x		Total	1.50	r	1931140.66	550479.47	157.00
28			62.6	-76.0	0.0	0.0	x		Total	1.50	r	1931147.76	550311.77	156.35
29			62.2	-74.6	0.0	0.0	x		Total	1.50	r	1931137.33	550190.64	150.83
30			61.4	-75.1	0.0	0.0	x		Total	1.50	r	1931138.69	550118.16	151.67
31			59.0	-77.1	0.0	0.0	x		Total	1.50	r	1931147.15	550049.69	152.32
32			57.2	-78.7	0.0	0.0	x		Total	1.50	r	1931156.37	549932.81	153.81
33			52.8	-83.0	0.0	0.0	x		Total	1.50	r	1931211.46	549751.64	155.30
V2-6			48.3	-88.1	0.0	0.0	x		Total	1.50	r	1930915.85	549714.72	154.60
V2-8			48.8	-88.2	0.0	0.0	x		Total	1.50	r	1930956.46	549784.85	155.50
V2-7			47.8	-89.6	0.0	0.0	x		Total	1.50	r	1930901.97	549773.00	154.81
V2-9			47.7	-89.9	0.0	0.0	x		Total	1.50	r	1930919.38	549861.74	154.42
V2-10			46.0	-92.4	0.0	0.0	x		Total	1.50	r	1930794.29	549910.94	153.56
V2-5			62.2	-76.2	0.0	0.0	x		Total	1.50	r	1931007.95	550727.93	146.10
V2-4			59.1	-78.7	0.0	0.0	x		Total	1.50	r	1930971.17	550839.05	145.27
V2-3			64.5	-75.3	0.0	0.0	x		Total	1.50	r	1930890.79	551001.40	144.43
V2-2			64.0	-75.6	0.0	0.0	x		Total	1.50	r	1930723.36	550915.74	141.39
V2-1			63.9	-75.7	0.0	0.0	x		Total	1.50	r	1930628.47	550842.92	139.40
V2-11			55.1	-86.2	0.0	0.0	x		Total	1.50	r	1930486.84	550303.20	148.74
V2-12			56.1	-85.2	0.0	0.0	x		Total	1.50	r	1930424.61	550296.62	146.50
V2-13			52.8	-88.4	0.0	0.0	x		Total	1.50	r	1930347.90	550248.12	142.82
V2-14			56.7	-84.9	0.0	0.0	x		Total	1.50	r	1930277.71	550310.56	141.23
V2-15			52.6	-87.1	0.0	0.0	x		Total	1.50	r	1930187.92	550334.14	140.34
V2-16			51.2	-89.7	0.0	0.0	x		Total	1.50	r	1930181.15	550278.86	141.13
V2-17			54.6	-85.1	0.0	0.0	x		Total	1.50	r	1930113.09	550353.69	139.35
V2-18			56.6	-83.3	0.0	0.0	x		Total	1.50	r	1930061.10	550348.62	139.73
V2-19			52.6	-87.6	0.0	0.0	x		Total	1.50	r	1930061.57	550307.25	140.71
V2-20			55.2	-84.7	0.0	0.0	x		Total	1.50	r	1929915.49	550257.75	140.73
V2-21			53.0	-86.9	0.0	0.0	x		Total	1.50	r	1929902.95	550217.46	140.53
V2-22			57.6	-82.3	0.0	0.0	x		Total	1.50	r	1929860.57	550225.81	139.18
V2-23			50.5	-89.3	0.0	0.0	x		Total	1.50	r	1929876.39	550159.85	140.51
V2-24			57.0	-82.8	0.0	0.0	x		Total	1.50	r	1929768.65	550171.19	137.39
V2-25			56.0	-83.6	0.0	0.0	x		Total	1.50	r	1929668.37	550131.70	136.09
V2-26			50.4	-89.2	0.0	0.0	x		Total	1.50	r	1929685.31	550074.76	136.59
V2-27			58.4	-80.6	0.0	0.0	x		Total	1.50	r	1929574.16	550085.80	135.03
V2-28			58.0	-80.2	0.0	0.0	x		Total	1.50	r	1929553.78	550029.89	134.92
V2-30			50.4	-88.4	0.0	0.0	x		Total	1.50	r	1929642.84	549978.45	136.50
V2-29			57.9	-80.5	0.0	0.0	x		Total	1.50	r	1929583.44	549968.30	135.38
V2-31			59.0	-79.2	0.0	0.0	x		Total	1.50	r	1929625.03	549871.48	137.33
V2-32			49.8	-88.8	0.0	0.0	x		Total	1.50	r	1929688.16	549873.97	138.59
V2-33			58.9	-79.5	0.0	0.0	x		Total	1.50	r	1929667.32	549766.75	139.05
V2-34			61.7	-76.9	0.0	0.0	x		Total	1.50	r	1929695.79	549663.77	140.13
V2-35			51.4	-87.1	0.0	0.0	x		Total	1.50	r	1929928.86	549088.70	131.93
V2-36			49.8	-88.7	0.0	0.0	x		Total	1.50	r	1929953.68	548988.29	130.03
V2-37			49.1	-90.2	0.0	0.0	x		Total	1.50	r	1929967.52	548903.04	126.14
V2-38			57.7	-81.5	0.0	0.0	x		Total	1.50	r	1929487.30	549602.92	137.10
V2-39			57.2	-82.0	0.0	0.0	x		Total	1.50	r	1929482.53	549658.14	137.20
V2-40			54.4	-84.8	0.0	0.0	x		Total	1.50	r	1929419.85	549696.64	140.27
V2-41			53.4	-85.8	0.0	0.0	x		Total	1.50	r	1929359.58	549774.03	142.59
V2-42			52.8	-86.6	0.0	0.0	x		Total	1.50	r	1929289.30	549864.54	144.23
V2-43			48.0	-90.5	0.0	0.0	x		Total	1.50	r	1929108.08	549825.26	136.81
V2-44			52.2	-84.7	0.0	0.0	x		Total	1.50	r	1929045.07	549866.72	136.75
V2-45			51.5	-85.3	0.0	0.0	x		Total	1.50	r	1928961.39	549770.87	122.50
V2-47			49.7	-87.8	0.0	0.0	x		Total	1.50	r	1928923.61	549635.92	109.60
V2-46			52.3	-84.8	0.0	0.0	x		Total	1.50	r	1928871.97	549681.88	107.55

Name	M.	ID	Level Lr		Limit. Value		Land Use			Height		Coordinates		
			Day	Night	Day	Night	Type	Auto	Noise Type	(m)	(m)	X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)				(m)	(m)	(m)	(m)	(m)
V2-1-2			65.2	-75.2	0.0	0.0	x		Total	4.00	r	1930629.28	550843.61	141.90
V2-2-2			65.7	-74.5	0.0	0.0	x		Total	4.00	r	1930723.71	550916.08	143.89
V2-3-2			65.3	-74.5	0.0	0.0	x		Total	4.00	r	1930891.34	551001.54	146.93
V2-4-2			60.6	-77.2	0.0	0.0	x		Total	4.00	r	1930971.81	550838.05	147.77
V2-5-2			63.4	-75.7	0.0	0.0	x		Total	4.00	r	1931007.91	550727.51	148.60
V2-6-2			50.2	-85.9	0.0	0.0	x		Total	4.00	r	1930914.86	549711.66	157.10
V2-7-2			48.0	-88.6	0.0	0.0	x		Total	4.00	r	1930901.71	549771.41	157.31
V2-8-2			50.8	-85.6	0.0	0.0	x		Total	4.00	r	1930956.69	549782.17	158.00
V2-9-2			47.2	-90.3	0.0	0.0	x		Total	4.00	r	1930919.10	549859.19	156.92
V2-10-2			46.0	-91.9	0.0	0.0	x		Total	4.00	r	1930794.15	549908.85	156.06
V2-11-2			54.2	-87.0	0.0	0.0	x		Total	4.00	r	1930487.79	550301.19	151.24
V2-12-2			54.5	-86.8	0.0	0.0	x		Total	4.00	r	1930424.17	550295.16	149.00
V2-13-2			53.3	-87.9	0.0	0.0	x		Total	4.00	r	1930348.51	550246.98	145.32
V2-14-2			55.5	-86.1	0.0	0.0	x		Total	4.00	r	1930276.61	550309.47	143.73
V2-16-2			51.9	-88.8	0.0	0.0	x		Total	4.00	r	1930180.61	550277.47	143.63
V2-15-2			53.6	-86.1	0.0	0.0	x		Total	4.00	r	1930188.52	550333.94	142.84
V2-17-2			56.1	-83.8	0.0	0.0	x		Total	4.00	r	1930113.28	550353.55	141.85
V2-18-2			58.0	-82.2	0.0	0.0	x		Total	4.00	r	1930061.41	550348.82	142.23
V2-19-2			53.6	-86.1	0.0	0.0	x		Total	4.00	r	1930061.65	550307.32	143.21
V2-20-2			57.4	-82.5	0.0	0.0	x		Total	4.00	r	1929915.59	550257.90	143.21
V2-21-2			54.1	-85.4	0.0	0.0	x		Total	4.00	r	1929903.25	550217.54	143.03
V2-22-2			58.6	-81.6	0.0	0.0	x		Total	4.00	r	1929860.67	550225.76	141.68
V2-23-2			52.1	-87.8	0.0	0.0	x		Total	4.00	r	1929876.58	550159.94	143.01
V2-24-2			58.3	-81.8	0.0	0.0	x		Total	4.00	r	1929768.77	550171.21	139.89
V2-25-2			58.0	-81.6	0.0	0.0	x		Total	4.00	r	1929669.07	550131.81	138.59
V2-26-2			50.7	-88.7	0.0	0.0	x		Total	4.00	r	1929686.10	550075.34	139.09
V2-27-2			59.4	-79.7	0.0	0.0	x		Total	4.00	r	1929574.35	550085.20	137.53
V2-28-2			59.6	-78.7	0.0	0.0	x		Total	4.00	r	1929553.89	550029.77	137.42
V2-29-2			57.9	-80.1	0.0	0.0	x		Total	4.00	r	1929584.21	549968.87	137.88
V2-30-2			51.3	-87.7	0.0	0.0	x		Total	4.00	r	1929643.07	549978.43	139.00
V2-31-2			59.6	-78.8	0.0	0.0	x		Total	4.00	r	1929625.20	549871.42	139.83
V2-32-2			50.5	-87.8	0.0	0.0	x		Total	4.00	r	1929687.63	549874.13	141.09
V2-33-2			58.8	-79.5	0.0	0.0	x		Total	1.50	r	1929667.39	549766.70	139.05
V2-34-2			62.0	-76.6	0.0	0.0	x		Total	4.00	r	1929695.72	549663.88	142.63
V2-35-2			52.0	-86.6	0.0	0.0	x		Total	4.00	r	1929929.32	549087.36	134.43
V2-36-2			50.5	-88.1	0.0	0.0	x		Total	4.00	r	1929953.91	548988.07	132.53
V2-37-2			48.9	-90.1	0.0	0.0	x		Total	4.00	r	1929967.17	548900.97	128.64
V2-38-2			57.8	-81.4	0.0	0.0	x		Total	4.00	r	1929487.07	549602.82	139.60
V2-39-2			57.3	-81.8	0.0	0.0	x		Total	4.00	r	1929481.41	549658.10	139.70
V2-40-2			54.6	-84.5	0.0	0.0	x		Total	4.00	r	1929419.03	549696.05	142.77
V2-41-2			52.8	-86.2	0.0	0.0	x		Total	4.00	r	1929359.74	549773.55	145.09
V2-42-2			52.5	-86.6	0.0	0.0	x		Total	4.00	r	1929289.17	549864.26	146.73
V2-43-2			48.7	-90.0	0.0	0.0	x		Total	4.00	r	1929108.21	549825.00	139.31
V2-44-2			54.0	-82.7	0.0	0.0	x		Total	4.00	r	1929045.05	549866.58	139.25
V2-45-2			53.1	-83.7	0.0	0.0	x		Total	4.00	r	1928961.37	549770.82	125.00
V2-46-2			53.3	-83.9	0.0	0.0	x		Total	4.00	r	1928871.79	549681.81	110.05
V2-47-2			50.0	-87.6	0.0	0.0	x		Total	4.00	r	1928923.29	549635.73	112.10
V2-48			59.2	-78.9	0.0	0.0	x		Total	1.50	r	1931031.09	550307.34	152.00

Gebietsausweisungen

Name	M.	ID	Type	Persons (1/km ²)

Hindernisse

Schirme

Häuser

Name	M.	ID	RB	Residents	Absorption	Height
						Begin
						(m)

Bewuchs

Name	M.	ID	Height (m)

Bebauung

Name	M.	ID	Type	Attenuation	B	m	Height
				dB/100m	%	1/m	(m)

Geometriedaten

Geometrie Linienquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Flächenquellen

Name	Height		Coordinates			Ground
	Begin (m)	End (m)	x (m)	y (m)	z (m)	

Geometrie Parkplätze

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Straßen

Name	Height		Coordinates				Dist (m)	LSlope (%)
	Begin (m)	End (m)	x (m)	y (m)	z (m)	Ground (m)		
Olympic Parkway Santa Victoria to Heritage Road			1928682.00	549760.43	94.20	94.20		
			1928954.09	549972.85	100.30	100.30		
			1929144.48	550113.03	104.60	104.60		
			1929343.39	550175.55	107.60	107.60		
			1929419.17	550194.49	108.50	108.50		
Heritage Road north of Olympic Parkway			1929149.09	550700.89	121.30	121.30		
			1929302.54	550524.71	121.95	121.95		
			1929368.84	550399.68	115.85	115.85		
			1929406.73	550263.28	109.14	109.14		
			1929416.20	550211.66	108.54	108.54		
Heritage Road Santa Liza Avenue to Main Street			1929682.33	549124.79	130.80	130.80		

Name			Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)		
	(m)	(m)	(m)	(m)	(m)	(m)				
			1929663.23	548907.59	123.50	123.50				
			1929665.13	548644.26	118.90	118.90				
			1929655.36	548550.29	118.30	118.30				
			1929599.72	548440.52	117.70	117.70				
			1929508.00	548356.32	117.00	117.00				
			1929428.31	548303.69	115.85	115.85				
La Media Road north of Olympic Parkway			1930732.12	551894.15	156.70	156.70				
			1930714.08	551695.67	157.00	157.00				
			1930738.13	551566.35	154.60	154.60				
			1930864.44	551157.36	137.20	137.20				
			1930901.62	551087.75	136.60	136.60				
La Media Road Olympic Parkway to Santa Venetia			1930917.08	551059.22	136.60	136.60				
			1930991.49	550920.09	137.50	137.50				
			1931068.93	550688.52	145.10	145.10				
Olympic Parkway Heritage Road to Santa Venetia Street			1929419.78	550194.81	108.50	108.50				
			1929608.35	550240.76	111.00	111.00				
			1929728.89	550291.49	112.50	112.50				
			1930088.85	550533.98	118.30	118.30				
			1930556.33	550845.34	132.00	132.00				
Olympic Parkway east of La Media Road			1930909.22	551073.61	136.60	136.60				
			1931037.22	551145.37	140.85	140.85				
			1931357.51	551422.05	152.44	152.44				
			1931557.51	551578.44	154.30	154.30				
La Media Road Santa Venetia to Birch			1931068.64	550688.06	145.10	145.10				
			1931094.22	550520.86	148.50	148.50				
			1931094.22	550246.14	146.95	146.95				
La Media Road south of Birch			1931093.80	550245.97	146.95	146.95				
			1931089.07	549955.15	136.60	136.60				
			1931093.58	549704.02	123.20	123.20				
			1931117.45	549588.24	123.50	123.50				
			1931166.39	549437.86	131.10	131.10				
			1931266.80	549267.34	138.40	138.40				
			1931408.90	549062.72	141.50	141.50				
Olympic Parkway Brandywine to Santa Victoria			1928376.01	549542.98	89.00	89.00				
			1928492.29	549599.18	90.80	90.80				
			1928681.87	549760.28	94.20	94.20				
Olympic Parkway Santa Venetia Street to La Media Road			1930555.31	550845.33	132.00	132.00				
			1930757.99	550994.20	134.75	134.75				
			1930907.47	551072.50	136.60	136.60				
Heritage Road Olympic Parkway to Santa Victoria Road			1929422.77	550177.51	108.53	108.53				
			1929474.74	549975.64	109.75	109.75				
			1929571.16	549791.84	117.38	117.38				
			1929614.85	549712.75	126.50	126.50				
			1929654.91	549620.07	129.60	129.60				
			1929669.26	549546.54	130.50	130.50				
Heritage Road Santa Victoria Road to Santa Liza Avenue			1929669.19	549546.66	130.50	130.50				
			1929681.14	549382.24	131.10	131.10				
			1929682.34	549124.56	130.80	130.80				

Geometrie Schienen

Name	Height		Coordinates			
	Begin	End	x	y	z	Ground
	(m)	(m)	(m)	(m)	(m)	(m)

Geometrie Schirme

Name	M.	ID	Absorption	Z-Ext.	Cantilever	Height	Coordinates					
			left	right	horz.	vert.	Begin	End	x	y	z	Ground
					(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
							1928342.12	549672.82	123.45	121.65		
							1928455.32	549718.14	121.92	120.12		
							1928444.98	549751.05	122.53	120.73		

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1928479.58	549781.14	122.20	120.40
											1928499.33	549757.44	122.20	120.40
											1928581.69	549825.52	121.30	119.50
											1928701.29	549869.52	120.40	118.60
											1928686.60	549897.95	120.10	118.30
											1928733.42	549932.17	121.00	119.20
											1928757.30	549910.55	121.00	119.20
											1928799.05	549979.75	122.80	121.00
											1928771.40	549994.42	122.80	121.00
											1928794.86	550041.80	122.20	120.40
											1928872.81	549994.42	122.50	120.70
											1928887.97	550020.00	123.40	121.60
											1928887.97	550056.73	121.30	119.50
											1928839.64	550092.74	122.80	121.00
											1928897.45	550126.86	120.70	118.90
											1928923.98	550076.16	121.60	119.50
											1928953.36	550060.99	122.20	120.40
											1928985.11	550091.32	122.20	120.40
											1928944.21	550155.20	120.70	118.90
											1928966.03	550176.45	121.30	119.50
											1929012.85	550156.14	121.30	119.50
											1929076.98	550156.33	121.90	120.10
											1929125.49	550175.70	122.20	120.40
											1929116.39	550204.05	122.20	120.40
											1929162.66	550219.73	122.20	120.40
											1929173.25	550191.67	122.20	120.40
											1929315.88	550236.68	124.40	122.60
											1929339.10	550265.11	124.40	122.60
											1929333.13	550326.61	124.66	122.86
											1929307.76	550410.79	125.30	123.50
											1929260.59	550505.71	131.10	129.30
											1929199.67	550571.15	132.60	130.80
											1929270.33	550639.09	128.93	127.13
											1929288.57	550607.81	128.93	127.13
											1929325.30	550580.56	128.30	126.50
											1929365.10	550496.45	128.30	126.50
											1929399.93	550447.41	128.90	127.10
											1929452.53	550424.19	129.10	129.10
											1929430.73	550397.18	128.90	127.10
											1929431.29	550375.18	128.90	127.10
											1929458.19	550361.32	129.55	127.75
											1929449.78	550348.05	129.80	128.00
											1929470.90	550324.17	130.76	128.96
											1929470.90	550310.25	131.40	129.60
											1929489.84	550298.12	131.40	129.60
											1929499.67	550298.17	131.40	129.60
											1929509.82	550295.87	131.40	129.60
											1929518.59	550285.68	131.40	129.60
											1929538.66	550282.40	131.40	129.60
											1929543.66	550297.47	131.70	129.90
											1929587.29	550297.49	131.70	129.90
											1929629.70	550312.65	132.00	130.20
											1929647.70	550336.29	132.00	130.20
											1929649.96	550355.19	132.30	130.50
											1929709.91	550355.19	133.50	131.70
											1929725.78	550362.18	133.80	132.00
											1929740.71	550384.69	134.40	132.60
											1929745.19	550432.90	136.80	135.00
											1929864.13	550459.91	140.20	138.40
											1929856.31	550488.81	140.20	138.40
											1929932.84	550512.03	140.50	138.70
											1929937.10	550527.91	141.10	139.30
											1929980.36	550554.80	142.04	140.24

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1929995.59	550554.61	142.34	140.54
											1929995.21	550571.35	142.65	140.85
											1929989.15	550588.70	143.30	141.50
											1930044.83	550602.58	143.60	141.80
											1930058.56	550599.45	143.90	142.10
											1930066.62	550616.31	143.90	142.10
											1930131.70	550656.91	145.10	143.30
											1930118.26	550676.32	145.70	143.90
											1930141.85	550681.09	146.30	144.50
											1930147.37	550691.69	146.30	144.50
											1930139.47	550727.05	146.60	144.89
											1930165.65	550739.96	146.90	145.10
											1930233.72	550800.26	146.90	145.10
											1930284.39	550792.50	150.58	148.78
											1930339.13	550825.91	151.80	150.00
											1930400.03	550889.80	154.80	153.00
											1930451.21	550981.73	158.80	157.00
											1930471.82	550966.21	158.80	157.00
											1930539.23	550966.45	158.80	157.00
											1930539.14	550983.00	159.40	157.60
											1930562.05	550982.92	160.03	158.23
											1930627.87	551054.01	161.90	160.10
											1930663.04	551053.82	161.90	160.10
											1930684.86	551094.45	162.77	160.97
											1930709.44	551106.20	162.77	160.97
											1930722.39	551106.24	163.10	161.30
											1930739.11	551134.83	163.10	161.30
											1930767.78	551152.36	163.10	161.30
											1930777.50	551178.19	162.80	161.00
											1930761.15	551210.41	162.80	161.00
											1930771.68	551235.80	161.90	160.10
											1930748.99	551271.63	161.90	160.10
											1930749.34	551328.97	161.30	159.50
											1930734.89	551383.23	160.30	158.50
											1930735.27	551419.72	159.70	157.90
											1930724.73	551453.57	158.80	157.00
											1930617.86	551481.04	158.50	156.70
											1931363.09	551335.42	165.50	163.70
											1931241.88	551251.23	162.50	160.70
											1931209.63	551222.57	159.40	157.60
											1931179.18	551167.64	157.30	155.50
											1931162.46	551167.64	155.80	154.00
											1931123.65	551150.92	153.60	151.80
											1931109.32	551130.02	153.60	151.80
											1931003.04	551066.73	151.80	150.00
											1931002.44	551016.57	150.60	148.80
											1931034.91	550961.13	150.60	148.80
											1931030.17	550955.20	150.30	148.50
											1931038.46	550929.61	150.80	149.00
											1931045.57	550925.82	151.20	149.40
											1931050.55	550912.08	152.40	150.60
											1931047.94	550907.10	153.00	151.20
											1931057.18	550881.27	152.70	150.90
											1931069.74	550860.89	152.10	150.30
											1931083.09	550809.93	152.10	150.30
											1931095.13	550762.53	153.00	151.20
											1931108.48	550748.80	153.30	151.20
											1931149.29	550739.02	153.90	152.10
											1931228.11	550762.91	154.80	153.00
											1931240.39	550725.79	155.80	154.00
											1931132.33	550683.13	152.40	150.60
											1931114.32	550657.07	152.40	150.60
											1931114.32	550632.42	152.40	150.60

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin		End		x	y	z	Ground
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)
											1931119.59	550598.19	153.90	152.10
											1931137.13	550478.77	155.50	153.70
											1931138.72	550469.55	155.80	153.70
											1931138.72	550408.99	156.10	154.30
											1931144.89	550404.25	156.10	154.30
											1931144.96	550393.58	156.10	154.30
											1931139.55	550387.75	156.40	154.60
											1931139.55	550338.69	155.20	153.40
											1931145.57	550304.46	154.50	152.70
											1931159.68	550288.29	154.50	152.70
											1931169.39	550283.31	155.20	153.40
											1931307.82	550282.94	155.20	153.40
											1931230.79	550199.83	150.00	148.20
											1931174.39	550209.31	149.40	147.60
											1931133.63	550207.89	149.10	147.30
											1931136.64	550105.19	150.30	148.50
											1931151.69	549971.85	151.50	149.70
											1931149.20	549941.75	151.80	150.00
											1931156.19	549917.94	152.70	150.90
											1931166.72	549874.02	153.00	151.20
											1931182.60	549849.37	153.30	151.50
											1931211.86	549729.50	153.90	152.10
											1931242.76	549739.05	153.90	152.10
											1931059.41	550226.35	148.75	146.95
											1931060.36	550132.51	149.05	147.25
											1931018.56	549917.54	151.80	150.00
											1930997.07	549886.49	152.40	150.60
											1930997.07	549779.00	152.70	150.90
											1930976.75	549752.30	154.50	152.70
											1930943.65	549848.97	153.30	151.50
											1930893.24	549888.47	152.40	150.60
											1930750.67	549928.35	151.80	150.00
											1930760.09	550356.28	145.10	143.30
											1930599.84	550341.98	145.10	143.30
											1930572.38	550326.56	146.30	144.50
											1930531.75	550308.13	146.90	145.10
											1930492.63	550308.50	147.50	145.70
											1930409.49	550298.34	144.50	142.70
											1930305.29	550306.71	139.90	138.10
											1930234.83	550328.05	139.30	137.50
											1930167.20	550347.01	138.10	136.30
											1930133.31	550347.01	138.10	136.30
											1930110.44	550362.89	137.80	136.00
											1930091.36	550362.77	137.50	135.70
											1930039.26	550346.22	138.40	136.60
											1929961.39	550305.22	139.00	137.20
											1929944.47	550281.14	139.60	137.80
											1929917.38	550269.85	140.50	138.70
											1929895.88	550242.53	139.00	137.20
											1929853.19	550227.01	137.20	135.40
											1929821.40	550198.80	136.60	134.80
											1929773.81	550174.91	135.95	134.15
											1929747.09	550175.06	135.30	133.50
											1929672.60	550144.21	135.30	133.50
											1929654.55	550128.03	134.40	132.60
											1929563.78	550084.14	133.50	131.70
											1929563.48	550068.62	132.90	131.10
											1929574.67	550057.99	132.90	131.10
											1929574.58	550046.42	132.90	131.10
											1929544.77	550032.60	133.50	131.70
											1929592.54	549922.72	134.40	132.60
											1929645.84	549826.43	136.90	135.10
											1929645.84	549800.95	137.20	135.40

Name	M.	ID	Absorption		Z-Ext.		Cantilever		Height		Coordinates			
			left right		horz.	vert.	Begin	End	x	y	z	Ground		
			(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
									1929661.36	549756.76	137.50	135.70		
									1929661.06	549743.92	137.50	135.70		
									1929699.43	549609.81	139.00	137.20		
									1929547.35	549655.29	132.90	131.10		
									1929570.34	549664.55	132.90	131.10		
									1929468.77	549808.26	135.30	133.50		
									1929429.64	549840.61	135.95	134.15		
									1929360.99	549959.11	137.50	135.70		
									1929344.87	549971.67	137.50	135.70		
									1929295.31	549971.08	137.80	136.00		
									1929242.16	549965.70	138.10	136.30		
									1929189.61	549949.58	138.10	136.30		
									1929166.91	549935.24	136.30	134.50		
									1929166.91	549921.51	136.30	134.50		
									1929146.01	549915.54	136.30	134.50		
									1929120.33	549879.11	136.00	134.20		
									1929095.85	549910.76	136.00	134.20		
									1929072.56	549896.01	136.00	134.20		
									1929069.19	549884.45	136.00	134.20		
									1929060.60	549884.45	136.00	134.20		
									1929055.94	549876.37	136.00	134.20		
									1929047.56	549876.46	136.00	134.20		
									1929026.58	549855.40	134.40	132.60		
									1928984.07	549792.20	123.75	121.95		
									1928950.40	549768.60	120.70	118.90		
									1928928.11	549746.49	117.65	115.85		
									1928910.62	549730.32	111.50	109.70		
									1928845.80	549663.13	102.40	100.60		
									1928868.49	549639.84	105.45	103.65		
									1929509.51	549659.60	133.80	132.00		
									1929443.86	549678.98	137.50	135.70		
									1929419.40	549704.37	139.80	138.00		
									1929283.87	549877.62	142.95	141.15		
									1929266.39	549877.80	142.95	141.15		
									1929246.38	549867.50	142.95	141.15		
									1929233.54	549874.21	142.95	141.15		
									1929193.53	549845.10	143.30	141.50		
									1929167.70	549889.59	136.30	134.50		
									1929895.04	549109.28	129.80	128.00		
									1929912.10	549009.74	129.80	128.00		
									1929910.68	548918.73	129.50	127.70		
									1929899.02	548837.46	123.75	121.95		
									1929924.98	548809.62	122.20	120.40		
									1929935.64	548787.58	120.70	118.90		
									1929947.97	548756.77	118.30	116.50		
									1930907.43	551027.87	143.30	141.50		
									1930858.45	550995.62	142.39	140.59		
									1930812.46	550978.29	141.63	139.83		
									1930726.45	550931.11	140.10	138.30		
									1930605.20	550840.32	137.75	135.95		
									1930632.68	550793.13	136.90	135.10		
									1930999.12	550692.72	146.60	144.80		
									1931031.36	550692.72	146.48	144.68		
									1931022.82	550748.19	146.26	144.46		
									1931007.18	550805.08	146.04	144.24		
									1930940.28	550944.25	145.45	143.65		
									1930940.88	550960.38	145.39	143.59		
									1930907.43	551027.87	145.10	143.30		

Geometrie Häuser

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates				
						Begin	(m)	x	(m)	y	(m)	z

Geometrie Höhenlinien

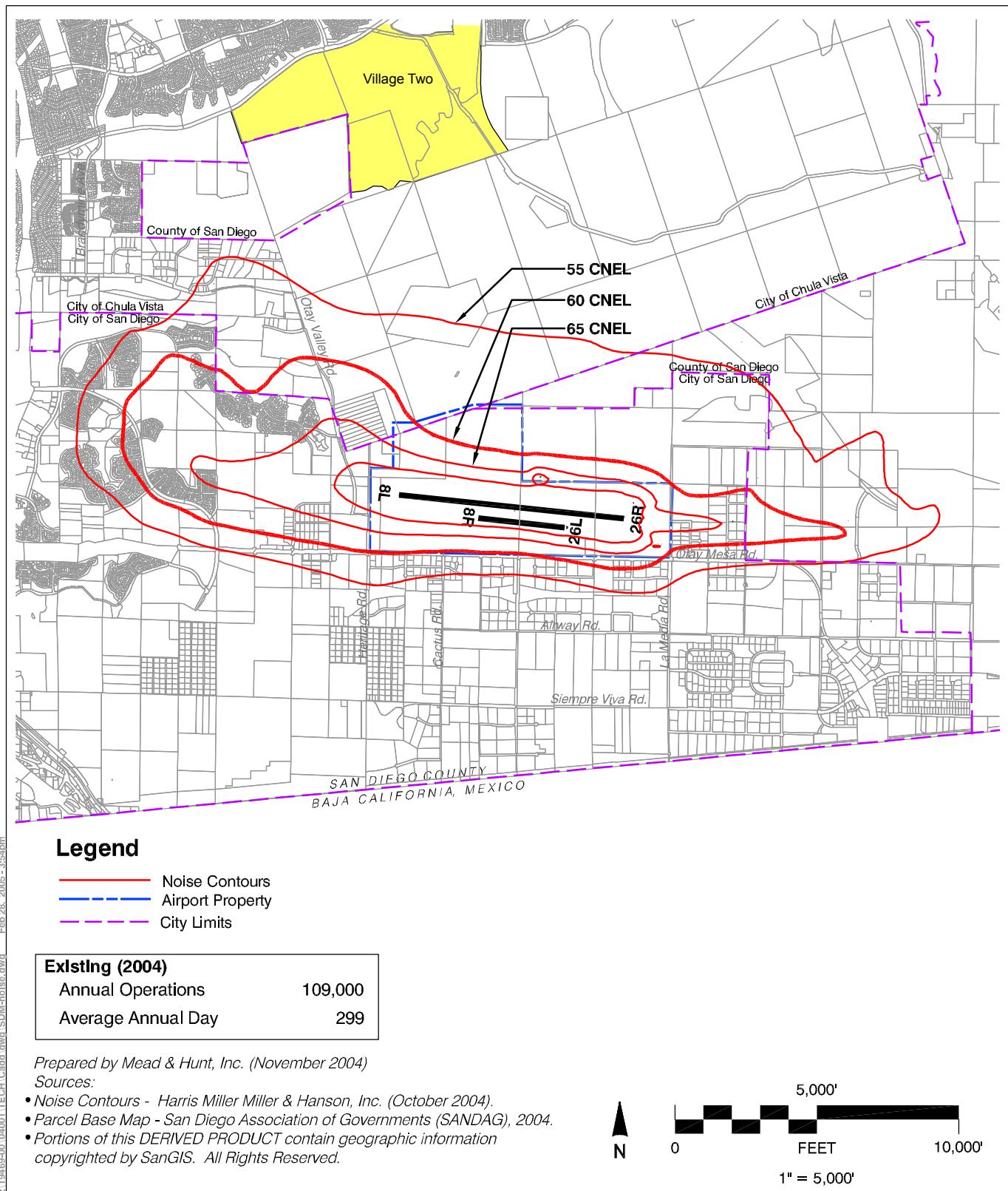
Name	M.	ID	OnlyPts	Height		Coordinates		
				Begin	End	x	(m)	y

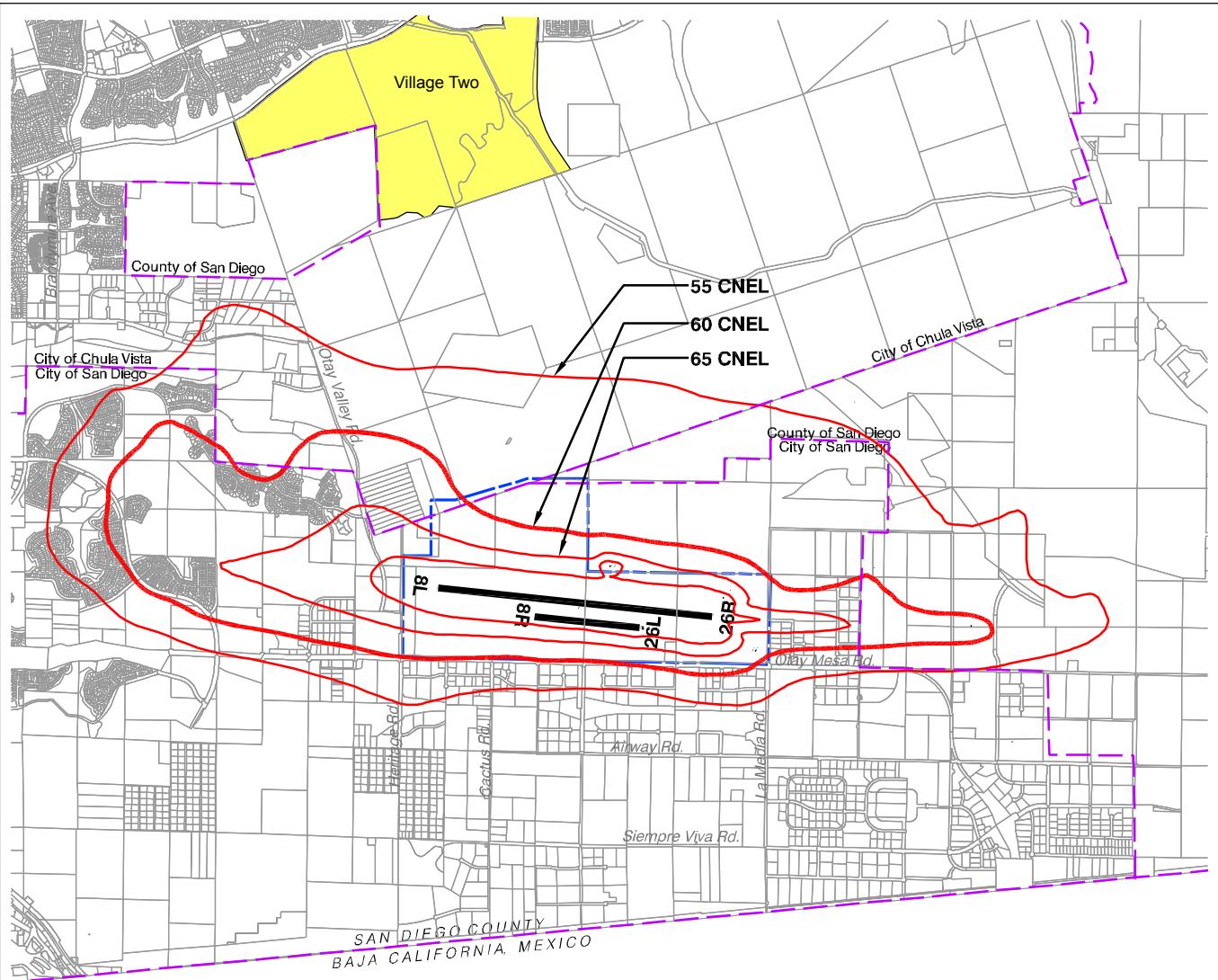
Geometrie Bruchkanten

Name	M.	ID	Coordinates	
			x	y

APPENDIX D

Airport Noise Data

**Exhibit SDM-5****Noise Impacts — Existing****Brown Field Municipal Airport**



Legend

- Noise Contours
- Airport Property
- - - City Limits

Future (20+ Years)

Annual Operations	240,000
Average Annual Day	658

Prepared by Mead & Hunt, Inc. (November 2004)

Sources:

- Noise Contours - Harris Miller Miller & Hanson, Inc. (October 2004).
- Parcel Base Map - San Diego Association of Governments (SANDAG), 2004.
- Portions of this DERIVED PRODUCT contain geographic information copyrighted by SanGIS. All Rights Reserved.

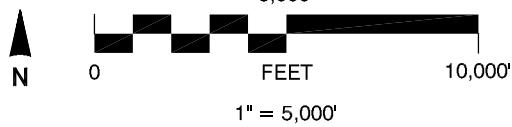
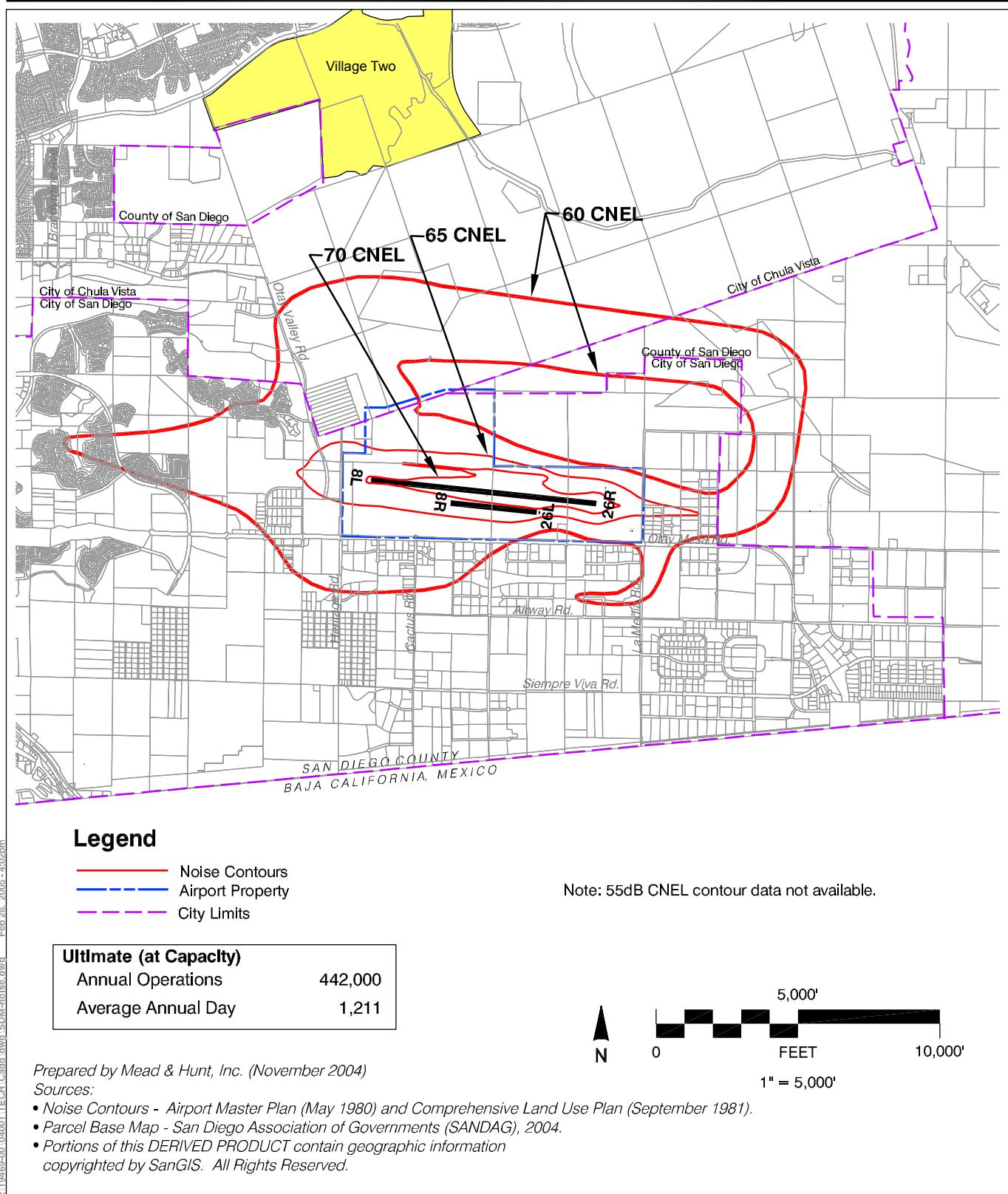


Exhibit SDM-6

Noise Impacts — Future (Alternative 1)

Brown Field Municipal Airport

**Exhibit SDM-7****Noise Impacts — Future (Alternative 2)****Brown Field Municipal Airport**

